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NASA THESAURUS SUPPLEMENT

JULY 1984

A three part cumulative
supplement to the 1982 edition
of the *NASA Thesaurus*



NASA
National Aeronautics
and Space Administration

**Scientific and Technical
Information Branch**

1984

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INTRODUCTION

The *NASA Thesaurus Supplement* replaces the former *6-Month Cumulative Listing of the NASA Thesaurus Changes*. This cumulative supplement to the *NASA Thesaurus* 1982 edition, incorporates all of the information normally contained in the previous publication as well as two new features: complete hierarchies and access vocabulary. It is hoped that the additional information and the improved legibility will make this a more useful product than its predecessor. Subsequent issues of the supplement will be cumulative and will be issued every six months. For detailed information on the use of the *NASA Thesaurus Supplement*, consult the front matter of the *NASA Thesaurus* 1982 edition.

Users are encouraged to consult the online NASA Thesaurus for the most complete and up-to-date information. Addenda to old hierarchies in the 1982 edition of the *NASA Thesaurus* are not given because they are readily found in the online NASA Thesaurus. Inclusion of such a feature would have substantially increased the size of the publication. In using the hierarchies in the online NASA Thesaurus, users are cautioned that these hierarchies list broad and narrow terms and not their interrelationships. The online NASA Thesaurus does not show the exact relationship when there are more than three broad and/or narrow terms.

New terms to this issue are indicated with a bullet and larger type. Designed for browsability, each new term appears in the format of the following example:

- Earthnet

Many times cross references are later made postable terms. These are shown in Part 3. When new cross references are added to older terms, the term that is referred to is not listed unless it is also a new term. For older terms check the printed or the online NASA Thesaurus.

Many Comments or suggestions about this publication, including suggestions for new terms, should be directed to the Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Maryland 21240.

TABLE OF CONTENTS

PART 1

HIERARCHICAL LISTING

A listing of new NASA Thesaurus terms and their hierarchies supplementing the NASA Thesaurus Hierarchical Listing.

PART 2

ACCESS VOCABULARY

A permuted list of new NASA Thesaurus terms supplementing the NASA Thesaurus Access Vocabulary.

PART 3

DELETIONS

A list of deletions, transfers and changes to the NASA Thesaurus.

NASA THESAURUS SUPPLEMENT

PART 1 HIERARCHICAL LISTING

A

• A-310 AIRCRAFT

GS COMMERCIAL AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-310 AIRCRAFT
 JET AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-310 AIRCRAFT
 PASSENGER AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-310 AIRCRAFT
 TRANSPORT AIRCRAFT
 . SHORT HAUL AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-310 AIRCRAFT
 RT INTERNATIONAL COOPERATION
 SWEEP WINGS

• A-320 AIRCRAFT

GS COMMERCIAL AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-320 AIRCRAFT
 JET AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-320 AIRCRAFT
 PASSENGER AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-320 AIRCRAFT
 TRANSPORT AIRCRAFT
 . SHORT HAUL AIRCRAFT
 . EUROPEAN AIRBUS
 . . A-320 AIRCRAFT
 RT INTERNATIONAL COOPERATION
 SWEEP WINGS

ACCOUNTING

RT BUDGETING
 COSTS
 FINANCE

ACCRETION DISKS

RT ASTROPHYSICS
 BINARY STARS
 BLACK HOLES (ASTRONOMY)
 DISKS (SHAPES)
 ECLIPSING BINARY STARS
 GALACTIC NUCLEI
 ROTATING DISKS
 STELLAR MASS ACCRETION

ACEE PROGRAM

UF AIRCRAFT ENERGY EFFICIENCY
 PROGRAM
 ENERGY EFFICIENCY TRANSPORT
 PROGRAM
 GS PROGRAMS
 . NASA PROGRAMS
 . . ACEE PROGRAM
 RT AIRCRAFT ENGINES
 COMBUSTION EFFICIENCY

ADA (PROGRAMMING LANGUAGE)

GS LANGUAGES
 . ADA (PROGRAMMING LANGUAGE)
 RT COMPUTER PROGRAMMING
 EMBEDDED COMPUTER SYSTEMS

AEROASSIST

RT AEROBRAKING
 AEROCAPTURE
 AEROMANEUVERING
 ATMOSPHERIC ENTRY
 INTERPLANETARY TRANSFER ORBITS
 TRANSFER ORBITS

AEROBRAKING

RT AEROASSIST

AEROBRAKING-(CONT.)

AEROCAPTURE
 AEROMANEUVERING
 INTERPLANETARY TRANSFER ORBITS
 TRANSFER ORBITS

AEROCAPTURE

RT AEROASSIST
 AEROBRAKING
 AEROCAPTURE
 AEROMANEUVERING
 ATMOSPHERIC ENTRY
 INTERPLANETARY TRANSFER ORBITS
 TRANSFER ORBITS

AEROELASTIC RESEARCH WINGS

GS AIRFOILS
 . WINGS
 . . AEROELASTIC RESEARCH WINGS
 STRUCTURAL DESIGN
 . AEROELASTIC RESEARCH WINGS
 RT AIRCRAFT DESIGN

• AEROMAGNETISM

RT AERIAL RECONNAISSANCE
 GEOMAGNETISM
 MAGNETIC ANOMALIES
 MAGNETIC SURVEYS
 MAGNETIC VARIATIONS
 REMOTE SENSING

AEROMANEUVERING

RT AEROASSIST
 AEROBRAKING
 AEROCAPTURE
 ATMOSPHERIC ENTRY
 INTERPLANETARY TRANSFER ORBITS
 TRANSFER ORBITS

AGROPHYSICAL UNITS

RT AGRICULTURE
 AGRISTARS PROJECT
 FARMLANDS
 LARGE AREA CROP INVENTORY
 EXPERIMENT

• AIR START

GS STARTING
 . AIR START
 RT AIRCRAFT CONTROL
 AIRCRAFT ENGINES
 ENGINE CONTROL
 FLIGHT TESTS

AIRCRAFT ENERGY EFFICIENCY PROGRAM

USE ACEE PROGRAM

• AIRCRAFT POWER SUPPLIES

GS ELECTRIC POWER SUPPLIES
 . AIRCRAFT POWER SUPPLIES
 RT AIRCRAFT EQUIPMENT
 AUXILIARY POWER SOURCES
 ELECTRIC GENERATORS
 . . POWER SUPPLIES

ALBERTA

GS NATIONS
 . CANADA
 . . ALBERTA

• ALLENDE METEORITE

GS CELESTIAL BODIES
 . METEORITES
 . . STONY METEORITES
 . . . CHONDRITES
 CARBONACEOUS CHONDRITES
 ALLENDE METEORITE

ANIK SATELLITES

GS CANADIAN SPACECRAFT
 . ANIK SATELLITES
 . . ANIK 1
 . . ANIK 2
 . . ANIK 3
 SATELLITES
 . ARTIFICIAL SATELLITES
 . . SYNCHRONOUS SATELLITES
 . . . ANIK SATELLITES
 ANIK 1
 ANIK 2
 ANIK 3
 . EARTH SATELLITES
 . . SYNCHRONOUS SATELLITES
 . . . ANIK SATELLITES
 ANIK 1
 ANIK 2
 ANIK 3
 RT CANADIAN SPACE PROGRAMS
 DELTA LAUNCH VEHICLE
 INTERNATIONAL COOPERATION

• ANTISTATIC DEVICES

USE STATIC DISCHARGERS

APL (PROGRAMMING LANGUAGE)

GS LANGUAGES
 . PROGRAMMING LANGUAGES
 . . APL (PROGRAMMING LANGUAGE)
 RT COMPUTER PROGRAMMING

ARABSAT

GS SATELLITES
 . ARTIFICIAL SATELLITES
 . . ARABSAT
 . EARTH SATELLITES
 . . ARABSAT
 RT INTERNATIONAL COOPERATION

• ARC CLOUDS

GS CLOUDS
 . CLOUDS (METEOROLOGY)
 . . CONVECTION CLOUDS
 . . . CUMULONIMBUS CLOUDS
 ARC CLOUDS
 RT METEOROLOGY
 OBSERVATION AIRCRAFT
 SATELLITE OBSERVATION

ARIES SOUNDING ROCKET

GS ROCKET VEHICLES
 . SOUNDING ROCKETS
 . . ARIES SOUNDING ROCKET

• ASTRONOMICAL SATELLITES

GS OBSERVATORIES
 . ASTRONOMICAL OBSERVATORIES
 . . ASTRONOMICAL SATELLITES
 . . . HEAO
 HEAO 1
 HEAO 2
 HEAO 3
 . . . OAO
 OAO 1
 OAO 2
 OAO 3
 . . . OSO
 AOSO
 OSO-1
 OSO-2
 OSO-3
 OSO-4
 OSO-5
 OSO-6
 OSO-7
 OSO-8
 SATELLITES

ASTRONOMICAL SATELLITES-(CONT.)

ARTIFICIAL SATELLITES
 ASTRONOMICAL SATELLITES
 HEAO 1
 HEAO 2
 HEAO 3
 OAO
 OAO 1
 OAO 2
 OAO 3
 OSO
 OSO
 OSO-1
 OSO-2
 OSO-3
 OSO-4
 OSO-5
 OSO-6
 OSO-7
 OSO-8
 EARTH SATELLITES
 ASTRONOMICAL SATELLITES
 HEAO 1
 HEAO 2
 HEAO 3
 OAO
 OAO 1
 OAO 2
 OAO 3
 OSO
 OSO
 OSO-1
 OSO-2
 OSO-3
 OSO-4
 OSO-5
 OSO-6
 OSO-7
 OSO-8
 SCIENTIFIC SATELLITES
 ASTRONOMICAL SATELLITES
 SPACEBORNE ASTRONOMY

RT

ASYMPTOTIC PROPERTIES

ASYMPTOTES
 ASYMPTOTIC METHODS
 ASYMPTOTIC SERIES
 DIFFERENTIAL EQUATIONS
 INTEGRAL EQUATIONS
 MATHEMATICAL MODELS

ATMOSPHERIC CORRECTION

ATMOSPHERIC EFFECTS
 CLOUDS (METEOROLOGY)
 GEOMETRIC RECTIFICATION (IMAGERY)
 IMAGE PROCESSING
 INFRARED RADIOMETERS
 RADIATIVE TRANSFER
 SATELLITE IMAGERY
 SPATIAL RESOLUTION

RT

• ATMOSPHERIC LOADING

USE POLLUTION TRANSPORT

• AUDIO DATA

AUDIO FREQUENCIES
 DATA
 DATA TRANSMISSION

RT

• AUDIO SIGNALS

AUDIO FREQUENCIES
 AUDITORY SIGNALS
 SIGNAL PROCESSING
 SIGNAL TRANSMISSION
 SIGNALS

RT

AUTOMATED TRANSIT VEHICLES

SURFACE VEHICLES
 AUTOMATED TRANSIT VEHICLES
 AUTOMATED GUIDEWAY TRANSIT VEHICLES
 CONVEYORS
 ELECTRIC MOTOR VEHICLES
 PASSENGERS
 RAIL TRANSPORTATION
 RAPID TRANSIT SYSTEMS
 TRANSPORTATION
 URBAN TRANSPORTATION
 VEHICLES

GS

RT

AUTUMN

SEASONS
 AUTUMN
 SPRING (SEASON)

GS

RT

AUTUMN-(CONT.)

SUMMER
 WINTER

AWARDS

SN (EXCLUDES CONTACTS & GRANTS)
 RT ASTRONAUTS
 SCIENTISTS

RT

B

BACKWARD DIFFERENCING

DIFFERENTIAL EQUATIONS
 NUMERICAL STABILITY
 PROBLEM SOLVING

RT

BACKWARD FACING STEPS

REARWARD FACING STEPS
 BOUNDARY LAYER FLOW
 FLOW GEOMETRY
 FLUID BOUNDARIES
 REATTACHED FLOW
 RECIRCULATIVE FLUID FLOW
 STAIRSTEPS
 STEPS

UF

RT

BAHAMAS

LANDFORMS
 ISLANDS
 WEST INDIES
 BAHAMAS
 NATIONS
 BAHAMAS
 CARIBBEAN REGION

GS

RT

• BALLOONING MODES

MODES
 BALLOONING MODES
 MAGNETOHYDRODYNAMIC STABILITY
 PLASMA CONTROL
 PLASMA EQUILIBRIUM
 TEARING MODES (PLASMAS)

GS

RT

• BAND RATIOING

IMAGE PROCESSING
 BAND RATIOING
 IMAGE ENHANCEMENT
 MULTISPECTRAL BAND SCANNERS
 REMOTE SENSING
 SPECTRAL BANDS

GS

RT

• BANDSTOP FILTERS

ELECTROMAGNETIC WAVE FILTERS
 ELECTRIC FILTERS
 BANDSTOP FILTERS
 ADAPTIVE FILTERS
 BANDPASS FILTERS
 BANDWIDTH
 CRYSTAL FILTERS
 HIGH PASS FILTERS
 LOW PASS FILTERS
 MICROWAVE FILTERS
 OPTICAL FILTERS
 TRACKING FILTERS
 WAVEGUIDE FILTERS

GS

RT

BARYON RESONANCE

PARTICLES
 ELEMENTARY PARTICLES
 FERMIONS
 BARYON RESONANCE
 RESONANCE
 BARYON RESONANCE
 BARYONS
 HYPERONS

GS

RT

BENIN

DAHOMEY
 NATIONS
 BENIN
 AFRICA

UF

GS

RT

BETA INTERACTIONS

WEAK INTERACTIONS (FIELD THEORY)

USE

BIOFEEDBACK

AEROSPACE MEDICINE
 BIOCONTROL SYSTEMS
 BLOOD PRESSURE
 CONDITIONING (LEARNING)

RT

BIOFEEDBACK-(CONT.)

FEEDBACK CONTROL
 HEART RATE
 HUMAN FACTORS ENGINEERING
 PSYCHOLOGY
 SENSORY FEEDBACK

BIOT NUMBER

RATIOS
 DIMENSIONLESS NUMBERS
 BIOT NUMBER
 HEAT TRANSFER
 NUMBERS

GS

RT

BIT ERROR RATE

BINARY CODES
 BINARY DATA
 BINARY DIGITS
 BIT SYNCHRONIZATION
 BITS
 ERROR ANALYSIS
 ERROR CORRECTING CODES
 ERROR DETECTION CODES
 ERROR SIGNALS
 PULSE COMMUNICATION
 SIGNAL TO NOISE RATIOS
 TRANSMISSION EFFICIENCY

RT

BRAZILIAN SPACE PROGRAM

PROGRAMS
 SPACE PROGRAMS
 BRAZILIAN SPACE PROGRAM
 BRAZIL

GS

RT

BRITISH COLUMBIA

NATIONS
 CANADA
 BRITISH COLUMBIA

GS

BRUCETON TEST

STATISTICAL TESTS

USE

BRUNT-VAISALA FREQUENCY

CONSTRAINTS
 METEOROLOGICAL PARAMETERS
 BRUNT-VAISALA FREQUENCY
 FREQUENCIES
 BRUNT-VAISALA FREQUENCY
 AIR CURRENTS
 AIR FLOW
 AIR MASSES
 ATMOSPHERIC CIRCULATION
 ATMOSPHERIC PHYSICS
 ATMOSPHERIC STRATIFICATION
 OSCILLATIONS

GS

RT

BURN-IN

FAILURE
 FAILURE ANALYSIS
 INTEGRATED CIRCUITS
 QUALITY CONTROL

RT

• BUSINESS MANAGEMENT

INDUSTRIAL MANAGEMENT

USE

C

CAD (DESIGN)

COMPUTER AIDED DESIGN

USE

CAM (MANUFACTURING)

COMPUTER AIDED MANUFACTURING

USE

• CAMBODIA

KAMPUCHEA

USE

CANADIAN SPACECRAFT

CANADIAN SPACECRAFT
 ALOUETTE SATELLITES
 ANIK SATELLITES
 ANIK 1
 ANIK 2
 ANIK 3
 RADARSAT
 CANADA
 CANADIAN SPACE PROGRAMS
 SPACECRAFT

GS

RT

• CARIBBEAN REGION

BAHAMAS

RT

CARIBBEAN REGION-(CONT.)

BARBADOS
BELIZE
CUBA
DEVELOPING NATIONS
DOMINICAN REPUBLIC
FRENCH GUIANA
GUYANA
HAITI
JAMAICA
MARTINIQUE
SURINAM
TRINIDAD AND TOBAGO
VIRGIN ISLANDS

CARRINGTON ROTATION
USE SOLAR ROTATION

• CATAclysmic VARIABLES

GS CELESTIAL BODIES
 . STARS
 . . BINARY STARS
 . . . CATAclysmic VARIABLES
 . . . VARIABLE STARS
 . . . CATAclysmic VARIABLES
RT DWARF STARS
 ECLIPSING BINARY STARS
 FLARE STARS
 HOT STARS
 NOVAE
 PERIODIC VARIATIONS
 SOLAR OSCILLATIONS
 STELLAR FLARES
 STELLAR MASS EJECTION
 STELLAR OSCILLATIONS
 WHITE DWARF STARS

CAVITONS

RT ELECTRIC FIELDS
 PLASMA DENSITY
 PLASMA PHYSICS
 PLASMA RESONANCE

CDC CYBER 205 COMPUTER

GS DATA PROCESSING EQUIPMENT
 . COMPUTERS
 . . CDC COMPUTERS
 . . . CDC CYBER 205 COMPUTER
 . . . DIGITAL COMPUTERS
 . . . CDC CYBER 205 COMPUTER

CERAMIC MATRIX COMPOSITES

GS CERAMICS
 . CERAMIC MATRIX COMPOSITES
 COMPOSITE MATERIALS
 . CERAMIC MATRIX COMPOSITES
RT AIRCRAFT CONSTRUCTION MATERIALS
 BORON REINFORCED MATERIALS
 CERAMIC BONDING
 CERAMIC HONEYCOMBS
 CERMETS
 COMPOSITE STRUCTURES
 MATRIX MATERIALS
 REINFORCING FIBERS
 SILICON NITRIDES
 TITANIUM CARBIDES
 TITANIUM NITRIDES

CHANGE DETECTION

RT AERIAL PHOTOGRAPHY
 AERIAL RECONNAISSANCE
 EARTH RESOURCES PROGRAM
 IMAGE PROCESSING
 IMAGERY
 LAND USE
 MULTISPECTRAL BAND SCANNERS
 MULTISPECTRAL PHOTOGRAPHY
 PATTERN RECOGNITION
 PHOTOINTERPRETATION
 RADAR IMAGERY
 REMOTE SENSING
 SCENE ANALYSIS
 SIDE-LOOKING RADAR
 TERRAIN ANALYSIS

• CIRCULAR WAVEGUIDES

GS TRANSMISSION LINES
 . COMMUNICATION CABLES
 . . WAVEGUIDES
 . . . CIRCULAR WAVEGUIDES
RT MICROWAVE TRANSMISSION
 PROPAGATION MODES

CIRCULATION DISTRIBUTION

RT ATMOSPHERIC CIRCULATION
 CIRCULATION
 ∞ DISTRIBUTION
 VELOCITY DISTRIBUTION

CLUSTER ANALYSIS

RT CLASSIFICATIONS
 IMAGE ANALYSIS
 IMAGE PROCESSING
 PATTERN RECOGNITION
 REMOTE SENSING

COMMAND LANGUAGES

GS LANGUAGES
 . COMMAND LANGUAGES
 . . QUERY LANGUAGES
RT INFORMATION RETRIEVAL

• COMMERCIAL SPACECRAFT

GS COMMERCIAL SPACECRAFT
 . RCA SATCOM SATELLITES
RT AEROSPACE INDUSTRY
 AEROSPACE VEHICLES
 COMMERCE
 COMMUNICATION SATELLITES
 INDUSTRIES
 SPACE COMMERCIALIZATION
 SPACE INDUSTRIALIZATION
 SPACE MANUFACTURING
 SPACE PROCESSING

• COMMONALITY

GS STANDARDIZATION
 . COMMONALITY
RT AIRCRAFT EQUIPMENT
 COST REDUCTION
 EFFICIENCY
 EQUIPMENT SPECIFICATIONS
 GROUND SUPPORT SYSTEMS
 SPACECRAFT COMPONENTS
 SPECIFICATIONS

COMPULSATORS

RT AC GENERATORS
 COMPENSATORS
 ELECTRIC POWER SUPPLIES
 PULSE GENERATORS

COMPUTATIONAL CHEMISTRY

GS ANALYSIS (MATHEMATICS)
 . NUMERICAL ANALYSIS
 . . COMPUTATIONAL CHEMISTRY
RT ∞ CHEMISTRY
 COMPUTER TECHNIQUES
 COMPUTERIZED SIMULATION
 PHYSICAL CHEMISTRY
 ∞ TESTS

COMPUTATIONAL GRIDS

UF GRIDS (MATHEMATICS)
 MESH (MATHEMATICS)
RT COORDINATES
 MATHEMATICAL MODELS
 NUMERICAL ANALYSIS
 PROBLEM SOLVING

COMPUTER AIDED DESIGN

UF CAD (DESIGN)
 COMPUTERIZED DESIGN
GS COMPUTER AIDED DESIGN
 . IPAD
RT AIRCRAFT DESIGN
 AMPLIFIER DESIGN
 COMPUTER GRAPHICS
 COMPUTER TECHNIQUES
 COMPUTERIZED SIMULATION
 ∞ DESIGN
 DRAFTING MACHINES
 ENGINE DESIGN
 HELICOPTER DESIGN
 LENS DESIGN
 LOFTING
 LOGIC DESIGN
 MISSILE DESIGN
 REACTOR DESIGN
 ROBOTICS
 SATELLITE DESIGN
 SPACECRAFT DESIGN
 STRUCTURAL DESIGN

COMPUTER AIDED MANUFACTURING

UF CAM (MANUFACTURING)
GS MANUFACTURING

COMPUTER AIDED MANUFACTURING-(CONT.)

RT . COMPUTER AIDED MANUFACTURING
 COMPUTER GRAPHICS
 COMPUTER TECHNIQUES
 COMPUTERIZED SIMULATION
 ROBOTICS

COMPUTER AIDED MAPPING

GS MAPPING
 . COMPUTER AIDED MAPPING
RT COMPUTER GRAPHICS
 COMPUTER TECHNIQUES
 COMPUTERIZED SIMULATION
 MAPS
 ROBOTICS

• COMPUTERIZED DESIGN

USE COMPUTER AIDED DESIGN

• CONCURRENT PROCESSING

GS DATA PROCESSING
 . CONCURRENT PROCESSING
RT ARCHITECTURE (COMPUTERS)
 COMPUTER SYSTEMS DESIGN
 MULTIPROCESSING (COMPUTERS)
 PARALLEL PROCESSING (COMPUTERS)

CONDENSATION NUCLEI

GS CONDENSATION NUCLEI
 . AITKEN NUCLEI
RT AEROSOLS
 CLOUD PHYSICS
 CLOUDS (METEOROLOGY)
 ∞ CONDENSATION
 CONDENSING
 DROPS (LIQUIDS)
 ICE NUCLEI
 METEOROLOGY
 MICROPARTICLES
 NUCLEATION
 ∞ NUCLEI
 RAIN

CONDENSERS (LIQUEFIERS)

UF CONDENSER RADIATORS
GS CONDENSERS (LIQUEFIERS)
 . JET CONDENSERS
RT ABSORBERS (EQUIPMENT)
 AIR CONDITIONING
 AIR CONDITIONING EQUIPMENT
 COLD TRAPS
 COLUMNS (PROCESS ENGINEERING)
 COMPRESSORS
 CONDENSATES
 ∞ CONDENSERS
 CONDENSING
 COOLING FINS
 COOLING SYSTEMS
 DISTILLATION EQUIPMENT
 DRYING APPARATUS
 EVAPORATORS
 EXHAUST SYSTEMS
 FILM CONDENSATION
 HEAT EXCHANGERS
 HEAT PUMPS
 LIQUEFIED GASES
 REFRIGERATING MACHINERY
 SEPARATORS
 SPACECRAFT RADIATORS
 VAPORIZERS

CONJUGATE GRADIENT METHOD

GS ANALYSIS (MATHEMATICS)
 . NUMERICAL ANALYSIS
 . . ITERATION
 . . . CONJUGATE GRADIENT METHOD
RT ALGORITHMS
 CONJUGATES
 GRADIENTS
 ITERATIVE SOLUTION

• CONTINENTAL MARGINS

USE CONTINENTAL SHELVES

• CONTINUUM MODELING

RT CONTINUUM MECHANICS
 CONTINUUMS
 LARGE SPACE STRUCTURES
 MATHEMATICAL MODELS
 STRUCTURAL ANALYSIS

• CONTROLLED SYSTEMS DESIGN

GS SYSTEMS ENGINEERING

CONTROLLED SYSTEMS DESIGN-(CONT.)**. CONTROLLED SYSTEMS DESIGN**

RT AEROSPACE SYSTEMS
AUTOMATIC CONTROL
.. AUTOMATION
.. BIONICS
.. BOND GRAPHS
.. CONTROL
.. CONTROL THEORY
.. CONTROLLERS
.. CYBERNETICS
.. DESIGN ANALYSIS
.. ELECTRIC CONTROL
.. ELECTRONIC CONTROL
.. FEEDBACK CONTROL
.. MATHEMATICAL MODELS
.. NUMERICAL CONTROL
.. OPERATIONS RESEARCH
.. OPTIMAL CONTROL
.. PARAMETER IDENTIFICATION
.. SYSTEM IDENTIFICATION
.. SYSTEMS ANALYSIS
.. SYSTEMS INTEGRATION

• COOLANT LOSS

USE LOSS OF COOLANT

• COROTATION

GS GYRATION
.. ROTATION
.. COROTATION
RT ASTRONOMICAL MODELS
GALACTIC ROTATION
GALACTIC STRUCTURE
MAGNETOSPHERE
SPIRAL GALAXIES
STELLAR MOTIONS
STELLAR ROTATION

COSMOS 954 SATELLITE

GS SATELLITES
.. ARTIFICIAL SATELLITES
.. COSMOS SATELLITES
.. COSMOS 954 SATELLITE
.. EARTH SATELLITES
.. COSMOS SATELLITES
.. COSMOS 954 SATELLITE
.. SOVIET SPACECRAFT
.. COSMOS SATELLITES
.. COSMOS 954 SATELLITE
RT UNCONTROLLED REENTRY
(SPACECRAFT)

COSPAS

GS SATELLITES
.. ARTIFICIAL SATELLITES
.. COSPAS
.. EARTH SATELLITES
.. COSPAS
RT RECONNAISSANCE
RESCUE OPERATIONS
SARSAT
SEARCHING

CRACK ARREST

RT CRACK INITIATION
CRACK PROPAGATION
CRACK TIPS
CRACKING (FRACTURING)

CRACK TIPS

GS CRACKS
.. CRACK TIPS
RT CRACK ARREST
CRACK INITIATION
CRACK PROPAGATION

CRANK-NICHOLSON METHOD

RT BOUNDARY VALUE PROBLEMS
DIFFERENTIAL EQUATIONS
FINITE DIFFERENCE THEORY
FINITE ELEMENT METHOD
NUMERICAL ANALYSIS

• CRANKED WINGS

USE SWEEPED WINGS

CRAY COMPUTERS

GS SUPERCOMPUTERS
.. CRAY COMPUTERS

CYCLIC ADENOSINE MONOPHOSPHATE

USE CYCLIC AMP

CYCLIC AMP

UF CYCLIC ADENOSINE MONOPHOSPHATE
GS HETEROCYCLIC COMPOUNDS
.. ADENOSINES
.. CYCLIC AMP
.. ORGANIC COMPOUNDS
.. CYCLIC COMPOUNDS
.. CYCLIC AMP
.. NUCLEOTIDES
.. ADENOSINES
.. CYCLIC AMP
.. PHOSPHORUS COMPOUNDS
.. PHOSPHATES
.. NUCLEOTIDES
.. ADENOSINES
.. CYCLIC AMP
.. PROTEINS
.. NUCLEOTIDES
.. ADENOSINES
.. CYCLIC AMP
RT ADRENERGICS
ALKYNES
AMINO ACIDS
CHOLINERGICS
GUANINES
PHARMACOLOGY

CYLINDRICAL COORDINATES

USE CARTESIAN COORDINATES

D**• DAHOMEY**

USE BENIN

DAMA

USE DEMAND ASSIGNMENT MULTIPLE
ACCESS

DAST PROGRAM

UF DRONES FOR AERODYNAMIC AND
STRUCT TEST
RT AEROELASTICITY
AIRCRAFT CONTROL
AIRCRAFT DESIGN
DRONE AIRCRAFT
FLIGHT TESTS
FLUTTER
REMOTELY PILOTED VEHICLES
VIBRATION DAMPING

DATA FLOW ANALYSIS

RT COMPUTER PROGRAMS
COMPUTER SYSTEMS PROGRAMS
FLOW CHARTS
NETWORK ANALYSIS
SEQUENTIAL CONTROL

DATA INTEGRATION

RT DATA MANAGEMENT
DATA SIMULATION

DATA SIMULATION

RT DATA INTEGRATION
DATA MANAGEMENT

DATA STRUCTURES

GS DATA PROCESSING
.. DATA STRUCTURES
RT COMPUTER PROGRAMMING
DATA BASES

**DEFENSE METEOROLOGICAL SATELLITE
PROGRAM**

USE DMSP SATELLITES

DEMAND ASSIGNMENT MULTIPLE ACCESS

UF DAMA
GS TELECOMMUNICATION
.. MULTIPLE ACCESS
.. DEMAND ASSIGNMENT MULTIPLE
ACCESS
RT CHANNEL CAPACITY
COMMUNICATION NETWORKS
COMMUNICATION SATELLITES
SATELLITE NETWORKS

• DESERTIFICATION

RT ARID LANDS
BARREN LAND

DESERTIFICATION-(CONT.)

DEATH VALLEY (CA)
DESERTLINE
DESERTS
DROUGHT
EARTH ENVIRONMENT
GOBI DESERT
LAND
LAND USE
MAN ENVIRONMENT INTERACTIONS
MOJAVE DESERT (CA)
OASES
REMOTE SENSING
SAHARA DESERT (AFRICA)
STEPPES
WADIS

DESYNCHRONIZATION (BIOLOGY)

GS BIOLOGICAL EFFECTS
.. DESYNCHRONIZATION (BIOLOGY)
.. DISORIENTATION
.. DESYNCHRONIZATION (BIOLOGY)
.. PSYCHOLOGICAL EFFECTS
.. DESYNCHRONIZATION (BIOLOGY)
RT JET LAG
PHYSIOLOGICAL RESPONSES
RHYTHM (BIOLOGY)

DIDYMIUM

RT LANTHANUM
NEODYMIUM
OPTICAL FILTERS
PRASEODYMIUM

• DIFFERENTIAL ANALYZERS

RT ALGORITHMS
ANALOG COMPUTERS
COMPUTERIZED SIMULATION
DIFFERENTIAL EQUATIONS
DIGITAL COMPUTERS
DIGITAL INTEGRATORS

DIKES (GEOLOGY)

USE ROCK INTRUSIONS

• DINING PHILOSOPHERS PROBLEM

RT DISTRIBUTED PROCESSING
INTERPROCESSOR COMMUNICATION
PROBLEM SOLVING
SYNCHRONISM

DIRECTION FINDING

RT BEARING (DIRECTION)
RADIO DIRECTION FINDERS
SIGNAL PROCESSING

• DIRECTIONAL COUPLERS

RT ANTENNA COMPONENTS
COUPLERS
COUPLING
COUPLINGS
IMPEDANCE MATCHING
MICROSTRIP TRANSMISSION LINES
MICROWAVE COUPLING
TRANSMISSION LINES
YOKES

DIRECTORIES

RT HANDBOOKS
MANUALS

DISTRIBUTED PROCESSING

GS DATA PROCESSING
.. DISTRIBUTED PROCESSING
RT ARCHITECTURE (COMPUTERS)
COMPUTER NETWORKS
COMPUTER SYSTEMS DESIGN
DINING PHILOSOPHERS PROBLEM
MICROPROCESSORS

DMSP SATELLITES

UF DEFENSE METEOROLOGICAL SATELLITE
PROGRAM
GS MILITARY SPACECRAFT
.. DMSP SATELLITES
PROGRAMS
.. DEFENSE PROGRAM
.. DMSP SATELLITES
RT AIR DEFENSE
EARTH SATELLITES
METEOROLOGY
PHOTOMAPPING
PHOTORECONNAISSANCE

DMSP SATELLITES-(CONT.)
 REMOTE SENSING
 SATELLITE-BORNE PHOTOGRAPHY

DOUBLE STARS
 USE BINARY STARS

∞ DRAG COEFFICIENTS
 SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*

RT AERODYNAMIC COEFFICIENTS
 AERODYNAMIC DRAG
 DRAG
 HYDRODYNAMIC COEFFICIENTS

DREDGING
 RT ARTIFICIAL HARBORS
 HARBORS
 MINERAL DEPOSITS
 MINING
 UNDERWATER RESOURCES

DRONES FOR AERODYNAMIC AND STRUCT TEST
 USE DAST PROGRAM

DWARF GALAXIES
 GS CELESTIAL BODIES
 . GALAXIES
 . . **DWARF GALAXIES**
 RT LOCAL GROUP (ASTRONOMY)

E

• EARTHNET

RT EARTH OBSERVATIONS (FROM SPACE)
 EARTH RESOURCES
 ESA SATELLITES
 EUROPEAN SPACE PROGRAMS
 LANDSAT SATELLITES
 REMOTE SENSORS
 SYNTHETIC APERTURE RADAR

EASTERN HEMISPHERE
 RT EARTH (PLANET)
 GEOGRAPHY
 WESTERN HEMISPHERE

EINSTEIN OBSERVATORY
 USE HEAO 2

• ELECTRIC AIRCRAFT

USE FLY BY WIRE CONTROL

ELECTRIC FURNACES
 GS HEATING EQUIPMENT
 . FURNACES
 . . **ELECTRIC FURNACES**
 RT ∞ MATERIALS
 SPACE PROCESSING

• ELECTROCHROMISM

RT COLOR
 DISPLAY DEVICES
 ELECTRO-OPTICS
 ELECTROCHEMISTRY
 THIN FILMS

• ELECTRODE MATERIALS

RT ANIONS
 ANODES
 ANODIC COATINGS
 CATHODES
 CATHODIC COATINGS
 CELL ANODES
 CELL CATHODES
 ELECTRODES
 PHOTOCATHODES
 PHOTOELECTRIC CELLS
 PHOTOELECTRIC MATERIALS
 PHOTOELECTROCHEMICAL DEVICES
 TUBE ANODES

EMBEDDED COMPUTER SYSTEMS
 GS DATA PROCESSING EQUIPMENT
 . COMPUTERS
 . . **EMBEDDED COMPUTER SYSTEMS**
 . . . AIRBORNE/SPACEBORNE
 COMPUTERS
 RT ADA (PROGRAMMING LANGUAGE)

EMPENNAGE
 USE TAIL ASSEMBLIES

ENCKE COMET
 GS CELESTIAL BODIES
 . COMETS
 . . **ENCKE COMET**

ENERGY EFFICIENCY TRANSPORT PROGRAM
 USE ACEE PROGRAM

EURECA (ESA)
 UF EUROPEAN RETRIEVABLE CARRIER
 GS SPACE PLATFORMS
 . **EURECA (ESA)**
 RT SPACE SHUTTLES

EUROPEAN LARGE TELECOMM SATELLITE
 USE L-SAT

EUROPEAN RETRIEVABLE CARRIER
 USE EURECA (ESA)

EXERCISE
 USE PHYSICAL EXERCISE

EXPERIMENT DESIGN
 SN (DESIGN OF EXPERIMENTS EXCLUDES PROTOTYPES)
 UF DESIGN OF EXPERIMENTS
 GS **EXPERIMENT DESIGN**
 . FACTORIAL DESIGN
 RT COVARIANCE
 DEGREES OF FREEDOM
 ∞ DESIGN
 FACTOR ANALYSIS
 LABORATORIES
 MATHEMATICAL MODELS
 OPERATIONS RESEARCH
 ORTHOGONALITY
 QUALITY CONTROL
 REGRESSION ANALYSIS
 STATISTICAL ANALYSIS
 SYSTEMS ENGINEERING
 VARIANCE (STATISTICS)

EXPERT SYSTEMS
 GS INTELLIGENCE
 . ARTIFICIAL INTELLIGENCE
 . . **EXPERT SYSTEMS**
 RT COMPUTER PROGRAMMING
 ∞ LOGIC
 LOGIC PROGRAMMING

EXPLORER 44 SATELLITE
 UF SOLRAD 10 SATELLITE
 GS SATELLITES
 . ARTIFICIAL SATELLITES
 . . EXPLORER SATELLITES
 . . . **EXPLORER 44 SATELLITE**

EXPLORER 46 SATELLITE
 UF METEOROID TECHNOLOGY SATELLITE
 GS SATELLITES
 . ARTIFICIAL SATELLITES
 . . EXPLORER SATELLITES
 . . . **EXPLORER 46 SATELLITE**

F

FAR UV SPECTROSCOPIC EXPLORER
 GS SATELLITES
 . ARTIFICIAL SATELLITES
 . . EXPLORER SATELLITES
 . . . **FAR UV SPECTROSCOPIC EXPLORER**
 . EARTH SATELLITES
 . . EXPLORER SATELLITES
 . . . **FAR UV SPECTROSCOPIC EXPLORER**

• FASTING

RT AEROSPACE MEDICINE
 DIETS
 FOOD INTAKE
 HYPOXIA

FAUNA
 USE ANIMALS

FEATURE EXTRACTION
 USE PATTERN RECOGNITION

FEATURE IDENTIFICATION AND LOCATION EXPER
 RT EARTH OBSERVATIONS (FROM SPACE)
 IMAGE PROCESSING
 PATTERN RECOGNITION
 REMOTE SENSING
 REMOTE SENSORS
 SCENE ANALYSIS
 SPACE SHUTTLE PAYLOADS

FIRE RETARDANTS
 USE FLAME RETARDANTS

FIRMWARE
 RT COMPUTER PROGRAMMING
 HARDWARE
 MICROPROCESSORS
 MICROPROGRAMMING

FISCHER-TROPSCH PROCESS
 RT CATALYSIS
 CATALYTIC ACTIVITY
 REACTION KINETICS
 SYNTHESIS (CHEMISTRY)
 SYNTHETIC FUELS

FLAPERONS
 GS AIRFOILS
 . AILERONS
 . . **FLAPERONS**
 . FLAPS (CONTROL SURFACES)
 . . **FLAPERONS**
 CONTROL SURFACES
 . AILERONS
 . . **FLAPERONS**
 . FLAPS (CONTROL SURFACES)
 . . **FLAPERONS**
 RT AERODYNAMIC BRAKES

FLAVOR (PARTICLE PHYSICS)
 GS THEORETICAL PHYSICS
 . **FLAVOR (PARTICLE PHYSICS)**
 RT HADRONS
 PARTICLE INTERACTIONS
 PARTICLE THEORY
 QUANTUM THEORY
 QUARKS

• FLIGHT MANAGEMENT SYSTEMS

GS MANAGEMENT SYSTEMS
 . **FLIGHT MANAGEMENT SYSTEMS**
 RT AIR NAVIGATION
 AIR TRAFFIC CONTROL
 AIRBORNE/SPACEBORNE COMPUTERS
 AUTOMATIC FLIGHT CONTROL
 AUTOMATIC LANDING CONTROL
 AVIONICS
 COMPUTER TECHNIQUES
 FLIGHT CONTROL
 GROUND BASED CONTROL
 NAVIGATION AIDS
 ONBOARD DATA PROCESSING
 SYSTEMS ENGINEERING

• FLOAT ZONES

RT CRYSTAL GROWTH
 MELTS (CRYSTAL GROWTH)
 SILICON
 SOLAR CELLS
 SPACE PROCESSING
 ZONE MELTING

FLUID MANAGEMENT
 RT CRYOGENIC FLUID STORAGE
 CRYOGENIC FLUIDS
 CRYOGENIC ROCKET PROPELLANTS
 FLUID DYNAMICS
 FUEL CONTROL
 REDUCED GRAVITY

FLUID-SOLID INTERACTIONS
 RT GAS-SOLID INTERFACES
 LIQUID-SOLID INTERFACES
 SURFACE REACTIONS

• FORMYL IONS

GS IONS
 . **FORMYL IONS**
 RADICALS
 . **FORMYL IONS**

FRACTALS

FORMYL IONS-(CONT.)

RT ATMOSPHERIC CHEMISTRY
FORMATES
FORMIC ACID
HYDROXYL RADICALS
INTERSTELLAR CHEMISTRY
INTERSTELLAR MATTER
MOLECULAR IONS
NEGATIVE IONS
POSITIVE IONS

• FRACTALS

GS DIMENSIONS
FRACTALS
RT ∞ APPLICATIONS OF MATHEMATICS
COORDINATES
EXPONENTS
HALF SPACES
∞ MATHEMATICS
RATIOS
SET THEORY
∞ SPACE
STRANGE ATTRACTORS

FRAMES (DATA PROCESSING)

RT DATA MANAGEMENT
DATA PROCESSING
FORMAT
IMAGE PROCESSING

G

GALACTIC COSMIC RAYS

GS IONIZING RADIATION
COSMIC RAYS
GALACTIC COSMIC RAYS
RT ENERGETIC PARTICLES
GALACTIC RADIATION
SOLAR ACTIVITY EFFECTS
SOLAR WIND

GAS PATH ANALYSIS

RT GAS DYNAMICS
GAS FLOW

GEL PERMEATION CHROMATOGRAPHY

USE LIQUID CHROMATOGRAPHY

GEODETTIC ACCURACY

RT EARTH SURFACE
GEODESY
GEODES
GEOPOTENTIAL HEIGHT
SATELLITE DOPPLER POSITIONING

GEOGRAPHIC INFORMATION SYSTEMS

GS INFORMATION SYSTEMS
GEOGRAPHIC INFORMATION SYSTEMS
RT AERIAL PHOTOGRAPHY
DATA SYSTEMS
GEOGRAPHY
IMAGERY
INFRARED PHOTOGRAPHY
REMOTE SENSING

GEOMETRIC ACCURACY

RT DISTORTION
GEOMETRIC RECTIFICATION (IMAGERY)
IMAGE PROCESSING
IMAGE RESOLUTION

• GEOTHERMAL ANOMALIES

GS ANOMALIES
GEOTHERMAL ANOMALIES
RT GEOTEMPERATURE
GEOTHERMAL RESOURCES
SURFACE TEMPERATURE
THERMAL MAPPING

GIOTTO MISSION

GS ESA SPACECRAFT
GIOTTO MISSION
FLYBY MISSIONS
GIOTTO MISSION
UNMANNED SPACECRAFT
SPACE PROBES
GIOTTO MISSION
RT HALLEY'S COMET

• GOERTLER INSTABILITY

UF TAYLOR-GOERTLER INSTABILITY
GS STABILITY
GOERTLER INSTABILITY
RT BOUNDARY LAYER STABILITY
BOUNDARY LAYER TRANSITION
CENTRIFUGAL FORCE
FLOW STABILITY
LAMINAR BOUNDARY LAYER
ROTATING FLUIDS
ROTATING LIQUIDS
TAYLOR INSTABILITY
VORTICES
WALL FLOW

• GRAVITATIONAL PHYSIOLOGY

GS PHYSIOLOGY
GRAVITATIONAL PHYSIOLOGY
RT ACCELERATION STRESSES
(PHYSIOLOGY)
AEROSPACE MEDICINE
CENTRIFUGING STRESS
GRAVITATIONAL EFFECTS
PHYSIOLOGICAL ACCELERATION
PHYSIOLOGICAL EFFECTS
PHYSIOLOGICAL RESPONSES
SPACE FLIGHT STRESS
STRESS (PHYSIOLOGY)

• GRAVITINOS

GS PARTICLES
ELEMENTARY PARTICLES
GRAVITINOS
NEUTRAL PARTICLES
GRAVITINOS
RT BARYONS
COSMOLOGY
DECOUPLING
GRAVITONS
NEUTRINOS
PARTICLE MASS
WEAK ENERGY INTERACTIONS

GRAVITY PROBE B

RT GRAVITATIONAL EFFECTS
GYROSCOPES
NASA PROGRAMS
RELATIVITY

• GRAY SCALE

RT AERIAL PHOTOGRAPHY
IMAGE CONTRAST
IMAGE ENHANCEMENT
IMAGE PROCESSING
IMAGING TECHNIQUES
OPTICAL DATA PROCESSING
PATTERN RECOGNITION

• GREEN'S FUNCTIONS

UF GREEN THEOREM
GS ANALYSIS (MATHEMATICS)
REAL VARIABLES
GREEN'S FUNCTIONS
FUNCTIONS (MATHEMATICS)
GREEN'S FUNCTIONS
RT DIFFERENTIAL EQUATIONS
FIELD THEORY (ALGEBRA)
FIELD THEORY (PHYSICS)
HALF PLANES
HALF SPACES
JACOBI INTEGRAL
MANY BODY PROBLEM

GRIDS (MATHEMATICS)

USE COMPUTATIONAL GRIDS

GYRES

RT AIR WATER INTERACTIONS
COASTAL CURRENTS
OCEAN CURRENTS
OCEANOGRAPHY

H

HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

GS DISPOSAL
WASTE DISPOSAL
HAZARDOUS MATERIAL DISPOSAL
(IN SPACE)
RT AEROSPACE ENVIRONMENTS

NASA THESAURUS SUPPLEMENT (PART 1)

HAZARDOUS MATERIAL DISPOSAL (IN-(CONT.)

PUBLIC HEALTH
RADIOACTIVE WASTES
TOXICITY AND SAFETY HAZARD

HIGH REYNOLDS NUMBER

SN (RN ABOVE 3,000)
RT LOW REYNOLDS NUMBER
REYNOLDS NUMBER

• HIGH SPEED PHOTOGRAPHY

GS PHOTOGRAPHY
HIGH SPEED PHOTOGRAPHY
RT HIGH SPEED CAMERAS
PHOTOGRAPHIC RECORDING

HIGHLY MANEUVERABLE AIRCRAFT

UF HIMAT
RT AIRBORNE/SPACEBORNE COMPUTERS
AIRCRAFT
AIRCRAFT MANEUVERS
AUTOMATIC FLIGHT CONTROL
AUTOMATIC PILOTS
COMPUTERIZED SIMULATION
FIGHTER AIRCRAFT
FLIGHT CHARACTERISTICS
FLIGHT TESTS
REMOTELY PILOTED VEHICLES

HIMAT

USE HIGHLY MANEUVERABLE AIRCRAFT

HIPPARCOS SATELLITE

GS SATELLITES
ARTIFICIAL SATELLITES
ESA SATELLITES
HIPPARCOS SATELLITE
EARTH SATELLITES
ESA SATELLITES
HIPPARCOS SATELLITE
RT ASTROMETRY
EUROPEAN SPACE PROGRAMS
SPACEBORNE ASTRONOMY
STELLAR MOTIONS
STELLAR PARALLAX

HOLE BURNING

RT COMPUTER STORAGE DEVICES
HOLOGRAPHY
LASER APPLICATIONS
LASERS
LASING
MEMORY (COMPUTERS)

HR DIAGRAM

USE HERTZSPRUNG-RUSSELL DIAGRAM

• HUBBLE SPACE TELESCOPE

UF LARGE SPACE TELESCOPE
LST
GS TELESCOPES
SPACEBORNE TELESCOPES
HUBBLE SPACE TELESCOPE
RT FAINT OBJECT CAMERA
SPACE SHUTTLES
SPACE STATIONS
SPACEBORNE ASTRONOMY

• HUMAN RELATIONS

UF INTERPERSONAL RELATIONS
RT EMPLOYEE RELATIONS
PERSONNEL MANAGEMENT
SOCIOLOGY

IGFET

USE FIELD EFFECT TRANSISTORS

IMAGE ANALYSIS

RT CLUSTER ANALYSIS
IMAGE ENHANCEMENT
IMAGE PROCESSING
IMAGE RESOLUTION
PATTERN RECOGNITION
RADAR IMAGERY
REMOTE SENSING
SATELLITE IMAGERY
SCENE ANALYSIS

• **IMAGING RADAR**

GS RADAR
 . IMAGING RADAR
 RT RADAR IMAGERY
 REMOTE SENSORS
 SIDE-LOOKING RADAR
 SYNTHETIC APERTURE RADAR

INDOOR AIR POLLUTION

GS POLLUTION
 . ENVIRONMENT POLLUTION
 . . AIR POLLUTION
 . . . INDOOR AIR POLLUTION
 RT AIR QUALITY
 AIR SAMPLING
 ∞ BUILDINGS

• **INFORMATION TRANSFER**

RT INFORMATION DISSEMINATION
 INFORMATION FLOW
 INFORMATION MANAGEMENT
 INFORMATION RETRIEVAL
 INFORMATION SYSTEMS
 INTERNATIONAL COOPERATION
 TECHNOLOGY TRANSFER
 TECHNOLOGY UTILIZATION

INFRARED SIGNATURES

GS SIGNATURES
 . INFRARED SIGNATURES
 RT INFRARED DETECTORS
 INFRARED RADIATION
 INFRARED SPECTRA
 SIGNATURE ANALYSIS

INSAT SATELLITES

USE INDIAN SPACECRAFT

• **INTEGRAL ROCKET RAMJETS**

GS ENGINES
 . AIR BREATHING ENGINES
 . . GAS TURBINE ENGINES
 . . . JET ENGINES
 RAMJET ENGINES
 INTEGRAL ROCKET RAMJETS
 INTERNAL COMBUSTION ENGINES
 GAS TURBINE ENGINES
 JET ENGINES
 RAMJET ENGINES
 INTEGRAL ROCKET RAMJETS
 RT SOLID PROPELLANT ROCKET ENGINES
 TURBINE ENGINES

INTEGRALS

RT DIFFERENTIAL EQUATIONS
 FUNCTIONALS
 INTEGRAL CALCULUS
 ∞ MATHEMATICS

INTEGRATED LIBRARY SYSTEMS

GS INFORMATION SYSTEMS
 . INTEGRATED LIBRARY SYSTEMS
 RT INFORMATION DISSEMINATION
 INFORMATION MANAGEMENT
 INFORMATION RETRIEVAL
 LIBRARIES
 ON-LINE SYSTEMS

INTERACTIONAL AERODYNAMICS

GS FLUID MECHANICS
 . FLUID DYNAMICS
 . . GAS DYNAMICS
 . . . INTERACTIONAL AERODYNAMICS
 RT AIRFOILS
 COMPUTATIONAL FLUID DYNAMICS
 ∞ FLOW
 LAMINAR BOUNDARY LAYER

• **INTERDIGITAL TRANSDUCERS**

GS TRANSDUCERS
 . INTERDIGITAL TRANSDUCERS
 RT DIGITAL TRANSDUCERS
 ELECTROACOUSTIC TRANSDUCERS
 PIEZOELECTRIC TRANSDUCERS
 SURFACE ACOUSTIC WAVE DEVICES

• **INTERPERSONAL RELATIONS**

USE HUMAN RELATIONS

ION SPECTROMETERS

USE MASS SPECTROMETERS

IONOPAUSE

SN (EXCLUDES PLASMAPAUSE)
 RT COMETARY ATMOSPHERES
 PLANETARY ATMOSPHERES
 PLASMAPAUSE
 SPACE PLASMAS
 VENUS ATMOSPHERE

IRAS-ARAKI-ALCOCK COMET

GS CELESTIAL BODIES
 . COMETS
 . . IRAS-ARAKI-ALCOCK COMET
 RT INFRARED ASTRONOMY SATELLITE
 SOLAR SYSTEM

IRS (INDIAN SPACECRAFT)

USE INDIAN SPACECRAFT

J**JAPANESE SPACECRAFT**

UF MOS (JAPANESE SPACECRAFT)
 RT JAPAN
 ∞ SPACECRAFT

JUPITER SATELLITES

GS CELESTIAL BODIES
 . NATURAL SATELLITES
 . . JUPITER SATELLITES
 . . . GALILEAN SATELLITES
 CALLISTO
 EUROPA
 GANYMEDE
 IO
 SATELLITES
 . NATURAL SATELLITES
 . . JUPITER SATELLITES
 . . . AMALTHEA
 . . . GALILEAN SATELLITES
 CALLISTO
 EUROPA
 GANYMEDE
 IO
 RT JUPITER (PLANET)
 JUPITER RINGS
 SOLAR SYSTEM

K• **K-MESONS**

USE KAONS

KAMPUCHEA

UF CAMBODIA
 GS NATIONS
 . KAMPUCHEA
 RT ASIA

L**L-SAT**

UF EUROPEAN LARGE TELECOMM
 SATELLITE
 GS ESA SPACECRAFT
 . ESA SATELLITES
 . . L-SAT
 SATELLITES
 . ARTIFICIAL SATELLITES
 . . COMMUNICATION SATELLITES
 . . . L-SAT
 . . . ESA SATELLITES
 L-SAT
 EARTH SATELLITES
 COMMUNICATION SATELLITES
 L-SAT
 ESA SATELLITES
 L-SAT
 RT SATELLITE NETWORKS

LANDSAT 4

UF EARTH RESOURCES TECHNOLOGY
 SATELLITE D
 ERTS-D
 GS SATELLITES
 . ARTIFICIAL SATELLITES

LANDSAT 4-(CONT.)

. . LANDSAT SATELLITES
 . . . LANDSAT 4
 . . . EARTH SATELLITES
 . . . LANDSAT SATELLITES
 . . . LANDSAT 4

• **LANDSAT 5**

GS SATELLITES
 . ARTIFICIAL SATELLITES
 . . LANDSAT SATELLITES
 . . . LANDSAT 5
 . . . EARTH SATELLITES
 . . . LANDSAT SATELLITES
 . . . LANDSAT 5

• **LARGE SPACE TELESCOPE**

USE HUBBLE SPACE TELESCOPE

LEVITATION MELTING

GS PHASE TRANSFORMATIONS
 . MELTING
 . . LEVITATION MELTING
 RT ELECTRIC CURRENT
 EXTERNAL SURFACE CURRENTS
 LEVITATION
 LIQUID METALS
 LOW GRAVITY MANUFACTURING
 MAGNETIC SUSPENSION
 ∞ METALLURGY
 OHMIC DISSIPATION
 RESISTANCE HEATING
 SPACE MANUFACTURING
 SPACE PROCESSING

LIGHT VALVES

RT ELECTRO-OPTICS
 LIGHT MODULATION
 LIQUID CRYSTALS
 OPTICAL DATA PROCESSING

LIQUID PLUS SOLID ZONES

USE MUSHY ZONES

• **LOCAL GROUP (ASTRONOMY)**

GS CELESTIAL BODIES
 . GALAXIES
 . . GALACTIC CLUSTERS
 . . . LOCAL GROUP (ASTRONOMY)
 ANDROMEDA GALAXIES
 RT BARRED GALAXIES
 COSMOLOGY
 DISK GALAXIES
 DWARF GALAXIES
 ELLIPTICAL GALAXIES
 SPIRAL GALAXIES
 VIRGO GALACTIC CLUSTER

• **LOGIC PROGRAMMING**

GS SOFTWARE ENGINEERING
 . COMPUTER PROGRAMMING
 . . LOGIC PROGRAMMING
 RT ARTIFICIAL INTELLIGENCE
 EXPERT SYSTEMS
 LOGIC DESIGN

• **LOSS OF COOLANT**

UF COOLANT LOSS
 GS ACCIDENTS
 . LOSS OF COOLANT
 RT COOLANTS
 LEAKAGE
 LOSSES
 NUCLEAR REACTORS
 REACTOR MATERIALS

LOW INTENSITY X RAY IMAGING SCOPE

USE LIXISCOPEs

LOW REYNOLDS NUMBER

SN (RN BELOW 2,000)
 RT HIGH REYNOLDS NUMBER
 REYNOLDS NUMBER

LUNAR ATMOSPHERE

UF LUNAR IONOSPHERE
 GS ENVIRONMENTS
 . EXTRATERRESTRIAL ENVIRONMENTS
 . . LUNAR ENVIRONMENT
 . . . LUNAR ATMOSPHERE
 . . . SATELLITE ATMOSPHERES
 LUNAR ATMOSPHERE
 RT MOON

MADAGASCAR

LUNAR ATMOSPHERE-(CONT.)
PLANETARY ATMOSPHERES

M

MADAGASCAR
USE MALAGASY REPUBLIC

MAGELLAN MISSION
GS SATELLITES
.. ARTIFICIAL SATELLITES
.. ESA SATELLITES
.. MAGELLAN MISSION
.. EARTH SATELLITES
.. ESA SATELLITES
.. MAGELLAN MISSION
RT EXTREME ULTRAVIOLET RADIATION
FAR ULTRAVIOLET RADIATION
SPACEBORNE ASTRONOMY

MAGNETIC BEARINGS
GS BEARINGS
.. MAGNETIC BEARINGS
RT LEVITATION
MAGNETIC SUSPENSION

MAGSAT B SATELLITE
GS SATELLITES
.. ARTIFICIAL SATELLITES
.. MAGSAT B SATELLITE
.. EARTH SATELLITES
.. MAGSAT B SATELLITE
.. SCIENTIFIC SATELLITES
.. MAGSAT B SATELLITE
RT GEOMAGNETISM
MAGNETOMETERS

• MANNED MANEUVERING UNITS
GS EXTRAVEHICULAR MOBILITY UNITS
.. ASTRONAUT MANEUVERING
EQUIPMENT
.. MANNED MANEUVERING UNITS
RT ASTRONAUT LOCOMOTION
EXTRAVEHICULAR ACTIVITY
LIFE SUPPORT SYSTEMS
ORBITAL SERVICING
SELF MANEUVERING UNITS
SPACE SUITS

MAPSAT
GS SATELLITES
.. ARTIFICIAL SATELLITES
.. MAPSAT
.. EARTH SATELLITES
.. MAPSAT
RT LANDSAT SATELLITES
MAPPING
REMOTE SENSING
STEREOPHOTOGRAPHY

MARANGONI CONVECTION
GS CONVECTION
.. MARANGONI CONVECTION
RT CONVECTIVE FLOW
FREE CONVECTION
INTERFACIAL TENSION
LOW GRAVITY MANUFACTURING
MELTS (CRYSTAL GROWTH)
REDUCED GRAVITY
SPACE PROCESSING

MARECS MARITIME SATELLITES
GS ESA SPACECRAFT
.. ESA SATELLITES
.. MARECS MARITIME SATELLITES
SATELLITES
.. ARTIFICIAL SATELLITES
.. COMMUNICATION SATELLITES
.. MARECS MARITIME SATELLITES
.. ESA SATELLITES
.. MARECS MARITIME SATELLITES
.. MARITIME SATELLITES
.. MARECS MARITIME SATELLITES
.. EARTH SATELLITES
.. COMMUNICATION SATELLITES
.. MARECS MARITIME SATELLITES
.. ESA SATELLITES
.. MARECS MARITIME SATELLITES
.. MARITIME SATELLITES
.. MARECS MARITIME SATELLITES
RT EUROPEAN SPACE PROGRAMS

MARECS MARITIME SATELLITES-(CONT.)
SATELLITE NETWORKS

MARINER MARK 2 SPACECRAFT
RT FLYBY MISSIONS
INTERPLANETARY FLIGHT
∞ SPACECRAFT

• MEGAMECHANICS
RT LARGE SPACE STRUCTURES
STRUCTURAL ANALYSIS
STRUCTURAL ENGINEERING
TRUSSES
MEMORY (COMPUTERS)
RT ARCHITECTURE (COMPUTERS)
COMPUTER DESIGN
COMPUTER STORAGE DEVICES
COMPUTERS
HOLE BURNING
MAGNETIC DISKS
VIDEO DISKS

MESFETS
USE FIELD EFFECT TRANSISTORS

MESH (MATHEMATICS)
USE COMPUTATIONAL GRIDS

MESON RESONANCE
GS PARTICLES
.. ELEMENTARY PARTICLES
.. BOSONS
.. MESONS
.. MESON RESONANCE
.. X MESONS
.. FERMIONS
.. MESON RESONANCE
.. NUCLEAR PARTICLES
.. BOSONS
.. MESONS
.. MESON RESONANCE
.. X MESONS
RT BARYONS
HYPERONS

METALLICITY
RT ABUNDANCE
CHEMICAL ANALYSIS
CHEMICAL COMPOSITION
GALACTIC CLUSTERS
GALAXIES
GLOBULAR CLUSTERS
HYDROGEN
INTERSTELLAR MATTER
MASS RATIOS
METALLIC STARS
METALS
SPECTROSCOPIC ANALYSIS
STAR CLUSTERS
STARS

METEOROID TECHNOLOGY SATELLITE
USE EXPLORER 46 SATELLITE

• MICROGRAVITY
USE REDUCED GRAVITY
• ∞ MICROGRAVITY APPLICATIONS
SN (USE OF A MORE SPECIFIC TERM IS
RECOMMENDED-CONSULT THE TERMS
LISTED BELOW)
RT ELECTROPHORESIS
LOW GRAVITY MANUFACTURING
SPACE COMMERCIALIZATION
SPACE MANUFACTURING
SPACE PROCESSING

• MICROMECHANICS
RT COMPOSITE MATERIALS
CRACK PROPAGATION
FRACTURE MECHANICS
MECHANICAL PROPERTIES
MICROSTRUCTURE
REINFORCING FIBERS
STRESS CONCENTRATION

MILANKOVITCH THEORY
USE CLIMATOLOGY

NASA THESAURUS SUPPLEMENT (PART 1)

MINIMAL SURFACES
RT BOUNDARY VALUE PROBLEMS
CONFORMAL MAPPING
FINITE ELEMENT METHOD
∞ SURFACES

MISFETS
USE FIELD EFFECT TRANSISTORS

MIXING DEPTH
USE MIXING HEIGHT

MIXING HEIGHT
UF MIXING DEPTH
RT AIR POLLUTION
ATMOSPHERIC CIRCULATION
CONVECTION
CONVECTION CURRENTS
VERTICAL AIR CURRENTS
WIND (METEOROLOGY)

MOBILE COMMUNICATION SYSTEMS
GS MOBILE COMMUNICATION SYSTEMS
.. LAND MOBILE SATELLITE SERVICE
RT COMMUNICATION SATELLITES
MSAT
RADIO COMMUNICATION

MODE COUPLING
USE COUPLED MODES

MOS (JAPANESE SPACECRAFT)
USE JAPANESE SPACECRAFT

MOTION SIMULATION
GS HUMAN FACTORS ENGINEERING
.. MOTION SIMULATION
SIMULATION
.. MOTION SIMULATION
RT FLIGHT SIMULATION
FLIGHT SIMULATORS
MOTION SIMULATORS

MOZAMBIQUE
GS NATIONS
.. MOZAMBIQUE
RT AFRICA

MUCUS
GS BODY FLUIDS
.. MUCUS
RT SALIVA

MULTI-ANODE MICROCHANNEL ARRAYS
RT ANODES
ARRAYS
ASTRONOMICAL TELESCOPES
MICROCHANNELS
RADIATION DETECTORS
SPACEBORNE TELESCOPES

MULTIBEAM ANTENNAS
RT BEAMS (RADIATION)
SATELLITE ANTENNAS

• MURCHISON METEORITE
GS CELESTIAL BODIES
.. METEORITES
.. STONY METEORITES
.. CHONDRITES
.. CARBONACEOUS CHONDRITES
.. MURCHISON METEORITE

MUSHY ZONES
UF LIQUID PLUS SOLID ZONES
RT CASTING
COOLING
METALLOGRAPHY
PHASE TRANSFORMATIONS
SOLIDIFICATION

N

• NARROWBAND
GS BANDWIDTH
.. NARROWBAND
RT BROADBAND
FREQUENCIES

NEUTRAL ATMOSPHERES

RT ∞ ATMOSPHERES

NEW BRUNSWICKGS NATIONS
. CANADA
. NEW BRUNSWICK**NEW YORK CITY (NY)**GS CITIES
. NEW YORK CITY (NY)
RT NEW YORK**NEWFOUNDLAND**GS LANDFORMS
. ISLANDS
. NEWFOUNDLAND
NATIONS
. CANADA
. NEWFOUNDLAND**• NITROGEN FIXATION**

USE NITROGENATION

• NITROGENATIONUF NITROGEN FIXATION
GS CHEMICAL REACTIONS
. NITROGENATION
RT LEGUMINOUS PLANTS
LIGHTNING
NITROGEN**NOAA E**

USE NOAA 8 SATELLITE

NOAA 8 SATELLITEUF NOAA E
GS SATELLITES
. ARTIFICIAL SATELLITES
. METEOROLOGICAL SATELLITES
. . . NOAA 8 SATELLITE
. EARTH SATELLITES
. METEOROLOGICAL SATELLITES
. . . NOAA 8 SATELLITE
RT SARSAT**• NORTH VIETNAM**

USE VIETNAM

NORTHWEST TERRITORIESGS NATIONS
. CANADA
. NORTHWEST TERRITORIES**NOVA COMPUTERS**GS DATA PROCESSING EQUIPMENT
. COMPUTERS
. . . DIGITAL COMPUTERS
. . . MINICOMPUTERS
. . . NOVA COMPUTERS**NOVA SATELLITES**GS SATELLITES
. ARTIFICIAL SATELLITES
. NAVIGATION SATELLITES
. . . NOVA SATELLITES
. EARTH SATELLITES
. NAVIGATION SATELLITES
. . . NOVA SATELLITES
UNMANNED SPACECRAFT
. NAVIGATION SATELLITES
. . . NOVA SATELLITES
RT DISCOS (SATELLITE ATTITUDE
CONTROL)
TRANSIT NAVIGATION SYSTEM**NOVA SCOTIA**GS NATIONS
. CANADA
. NOVA SCOTIA**NOWCASTING**GS FORECASTING
. WEATHER FORECASTING
. . . NOWCASTING
METEOROLOGY
. WEATHER FORECASTING
. . . NOWCASTING**NUCLEAR MEDICINE**UF RADIATION MEDICINE
GS MEDICAL SCIENCE
. NUCLEAR MEDICINE**NUCLEAR MEDICINE-(CONT.)**RT RADIOBIOLOGY
ANTIRADIATION DRUGS
HEALTH PHYSICS
RADIOPATHOLOGY**NUCLEAR WASTES**

USE RADIOACTIVE WASTES

NUMERICAL DATA BASESGS INFORMATION SYSTEMS
. NUMERICAL DATA BASES
RT INFORMATION RETRIEVAL
ON-LINE SYSTEMS**O****OPEN PROJECT**UF ORIGIN OF PLASMAS IN EARTH
NEIGHBORHOOD
RT EARTH ATMOSPHERE
MAGNETOSPHERE
PLASMA DIAGNOSTICS
PLASMA PHYSICS
PLASMASPHERE
SATELLITE-BORNE INSTRUMENTS
SPACE PLASMAS**OPHIUCHI CLOUDS**RT CLOUD PHYSICS
INTERSTELLAR GAS
INTERSTELLAR MATTER
NEBULAE**OPTICAL BISTABILITY**GS ELECTROMAGNETIC PROPERTIES
. OPTICAL PROPERTIES
. . . OPTICAL BISTABILITY
RT HYSTERESIS
INTEGRATED OPTICS
LIGHT TRANSMISSION
NONLINEAR OPTICS
OPTICAL DATA STORAGE MATERIALS
OPTICAL EQUIPMENT
OPTICAL MEASURING INSTRUMENTS
OPTICAL MEMORY (DATA STORAGE)
OPTICAL WAVEGUIDES
SWITCHING CIRCUITS**OPTICAL COMPUTERS**GS DATA PROCESSING EQUIPMENT
. COMPUTERS
. . . OPTICAL COMPUTERS
RT COHERENT LIGHT
COMPUTER DESIGN
ELECTRO-OPTICS
OPTICAL EQUIPMENT
OPTICAL MEMORY (DATA STORAGE)**• OPTICAL DISKS**GS PERIPHERAL EQUIPMENT (COMPUTERS)
. COMPUTER STORAGE DEVICES
. . . OPTICAL DISKS
RT DATA STORAGE
LASER APPLICATIONS
OPTICAL DATA PROCESSING
OPTICAL EQUIPMENT
OPTICAL MEMORY (DATA STORAGE)
VIDEO DISKS**• ORATORY**

USE PUBLIC SPEAKING

ORBITAL MANEUVERING VEHICLESRT ORBIT TRANSFER VEHICLES
ORBITAL SERVICING
POWER MODULES (STS)
REMOVELY PILOTED VEHICLES
SATELLITES
∞ SPACECRAFT**ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD**

USE OPEN PROJECT

OSCILLATOR STRENGTHSRT ABSORPTION SPECTRA
ABSORPTIVITY
ELECTRON OSCILLATIONS
ELECTRON TRANSITIONS
LINE SPECTRA**OSCILLATOR STRENGTHS-(CONT.)**MOLECULAR OSCILLATIONS
MOLECULAR OSCILLATORS
OSCILLATORS
SPECTRAL LINE WIDTH**P****PARTICLE LADEN JETS**RT FUEL FLOW
JET FLOW
PARTICLES
TURBULENT FLOW**PAYLOAD TRANSFER**RT ORBITAL SERVICING
PAYLOAD RETRIEVAL (STS)
SPACE MAINTENANCE**PBB**

USE POLYBROMINATED BIPHENYLS

• PERSONAL COMPUTERSGS DATA PROCESSING EQUIPMENT
. COMPUTERS
. . . DIGITAL COMPUTERS
. . . MICROCOMPUTERS
. . . . PERSONAL COMPUTERS
RT COMPUTER TECHNIQUES**• PHOTOCINOMETRY**

USE PHOTOGRAMMETRY

PIONEER 12 SPACE PROBE

USE PIONEER VENUS SPACECRAFT

PLASMA ANTENNASGS ANTENNAS
. PLASMA ANTENNAS
RT ANTENNA DESIGN
ANTENNA RADIATION PATTERNS
PLASMA CYLINDERS
SPACECRAFT COMMUNICATION**PLASMA BUBBLES**RT F REGION
PLASMA DENSITY**• POLAR CUSPS**RT AERONOMY
GEOMAGNETIC LATITUDE
GEOMAGNETIC TAIL
GEOMAGNETISM
GEOPHYSICS
INTERPLANETARY SPACE
LINES OF FORCE
MAGNETIC FIELD CONFIGURATIONS
MAGNETIC FIELDS
MAGNETOPAUSE
MAGNETOSPHERE
PLANETARY MAGNETIC FIELDS
POLAR REGIONS
SPACE PLASMAS**• POLARITONS**GS POLARITONS
. PLASMONS**POLYBROMINATED BIPHENYLS**UF PBB
GS TOXINS AND ANTITOXINS
. POLYBROMINATED BIPHENYLS
RT FLAME RETARDANTS
POLYCHLORINATED BIPHENYLS**POWER FACTOR CONTROLLERS**GS CONTROLLERS
. POWER FACTOR CONTROLLERS
RT CURRENT REGULATORS
ELECTRIC MOTORS
ENERGY CONSERVATION
ENERGY CONVERSION EFFICIENCY
INDUCTION MOTORS
POWER EFFICIENCY
VOLTAGE REGULATORS

POWER LOSS

• ∞ POWER LOSS

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*
RT ENERGY DISSIPATION
POWER EFFICIENCY

• PRE-MAIN SEQUENCE STARS

- GS CELESTIAL BODIES
 . STARS
 . . MAIN SEQUENCE STARS
 . . . PRE-MAIN SEQUENCE STARS
RT STELLAR EVOLUTION

PREPROCESSING

- RT DATA PROCESSING
DATA REDUCTION
IMAGE PROCESSING

PRINCE EDWARD ISLAND

- GS LANDFORMS
 . ISLANDS
 . . PRINCE EDWARD ISLAND
 NATIONS
 . CANADA
 . . PRINCE EDWARD ISLAND

• PRINCIPAL COMPONENTS ANALYSIS

- RT IMAGE PROCESSING
IMAGING TECHNIQUES
KARHUNEN-LOEVE EXPANSION
PATTERN RECOGNITION

• PROTOCOL (COMPUTERS)

- RT CHANNELS (DATA TRANSMISSION)
COMMUNICATION NETWORKS
COMPUTER NETWORKS
DATA LINKS
DATA PROCESSING
DATA TRANSMISSION
PACKET SWITCHING

PSEUDOPOTENTIALS

- GS IMPURITIES
 . PSEUDOPOTENTIALS
RT IMPURITIES
MELTING
SEMICONDUCTORS (MATERIALS)

• PUBLIC SPEAKING

- UF ORATORY
RT LECTURES
SPEECH

PULSE REPETITION RATE

- GS RATES (PER TIME)
 . PULSE RATE
 . . PULSE REPETITION RATE
RT ∞ FREQUENCY RESPONSE
OPTICAL PUMPING
PULSE DURATION
PULSE GENERATORS
PULSED LASERS

P78-2 SATELLITE

- USE SCATHA SATELLITE

Q

QUANTUM ELECTRONICS

- RT ∞ ELECTRONICS
LASERS
QUANTUM MECHANICS
QUANTUM THEORY

QUERY LANGUAGES

- GS LANGUAGES
 . COMMAND LANGUAGES
 . . QUERY LANGUAGES
RT INFORMATION RETRIEVAL

R

RADARSAT

- GS CANADIAN SPACECRAFT
 . RADARSAT

RADARSAT-(CONT.)

- RT CANADIAN SPACE PROGRAMS
SYNTHETIC APERTURE RADAR

• RADIATION MEDICINE

- USE NUCLEAR MEDICINE

RADIOCARDIOGRAPHY

- GS BIOENGINEERING
 . BIOMETRICS
 . . RADIOCARDIOGRAPHY
 CARDIOLOGY
 . . RADIOCARDIOGRAPHY
RT CARDIOLOGY

RAYLEIGH-BENARD CONVECTION

- GS CONVECTION
 . FREE CONVECTION
 . . RAYLEIGH-BENARD CONVECTION
 FLUID FLOW
 . CONVECTIVE FLOW
 . . RAYLEIGH-BENARD CONVECTION
 . . . BENARD CELLS
RT CONVECTION CURRENTS
CONVECTIVE HEAT TRANSFER
FORCED CONVECTION
HOT SURFACES
LAMINAR FLOW
RAYLEIGH NUMBER
THERMAL BOUNDARY LAYER

REARWARD FACING STEPS

- USE BACKWARD FACING STEPS

• RECTANGULAR WAVEGUIDES

- GS TRANSMISSION LINES
 . COMMUNICATION CABLES
 . . WAVEGUIDES
 . . . RECTANGULAR WAVEGUIDES
RT BEAM WAVEGUIDES
MICROWAVE FILTERS

RED DWARF STARS

- GS CELESTIAL BODIES
 . STARS
 . . DWARF STARS
 . . . RED DWARF STARS
RT HOT STARS
LATE STARS
MAIN SEQUENCE STARS
STELLAR LUMINOSITY
STELLAR MAGNITUDE
SUBDWARF STARS
SUPERNOVA REMNANTS
WHITE DWARF STARS

REFLECTION NEBULAE

- GS CELESTIAL BODIES
 . NEBULAE
 . . REFLECTION NEBULAE
RT COSMIC DUST
INTERSTELLAR MATTER
LIGHT SCATTERING

REFORESTATION

- GS MANAGEMENT
 . RESOURCES MANAGEMENT
 . . FOREST MANAGEMENT
 . . . REFORESTATION
RT FORESTS
TIMBER INVENTORY

REVERSE SWITCHING RECTIFIERS

- GS RECTIFIERS
 . REVERSE SWITCHING RECTIFIERS
RT CRYSTAL RECTIFIERS
MODULATORS
SOLID STATE DEVICES

ROBOTICS

- RT ARTIFICIAL INTELLIGENCE
AUTOMATA THEORY
AUTOMATIC CONTROL
COMPUTER AIDED DESIGN
COMPUTER AIDED MANUFACTURING
COMPUTER AIDED MAPPING
COMPUTER VISION
MAN MACHINE SYSTEMS
MANIPULATORS
ROBOTS
TELEOPERATORS
VOICE CONTROL

NASA THESAURUS SUPPLEMENT (PART 1)

ROMANIA

- UF RUMANIA
GS NATIONS
 . ROMANIA
RT BLACK SEA
CENTRAL EUROPE
EUROPE

ROSAT MISSION

- GS OBSERVATORIES
 . ASTRONOMICAL OBSERVATORIES
 . . ROSAT MISSION
 SATELLITES
 . ARTIFICIAL SATELLITES
 . . ROSAT MISSION
 . . . EARTH SATELLITES
 . . . ROSAT MISSION
RT SPACEBORNE ASTRONOMY
SPACEBORNE TELESCOPES
X RAY SOURCES
X RAY TELESCOPES

• ROTARY ENGINES

- GS ENGINES
 . INTERNAL COMBUSTION ENGINES
 . . ROTARY ENGINES
 . . . WANKEL ENGINES
RT AIRCRAFT ENGINES
AUTOMOBILE ENGINES
PISTON ENGINES

ROTOR BODY INTERACTIONS

- RT AERODYNAMIC CHARACTERISTICS
AERODYNAMIC CONFIGURATIONS
HELICOPTER DESIGN
ROTOR AERODYNAMICS

• RUMANIA

- USE ROMANIA

S

SAND CASTING

- GS FORMING TECHNIQUES
 . CASTING
 . . SAND CASTING
RT MOLDING MATERIALS
SANDS

• SATELLITE DOPPLER POSITIONING

- RT DOPPLER EFFECT
DOPPLER NAVIGATION
DOPPLER RADAR
GEODESY
GEODETIC ACCURACY
GEODETIC COORDINATES
GEODETIC SATELLITES
GEODETIC SURVEYS
POLYSTATION DOPPLER TRACKING
SYSTEM
POSITIONING
SATELLITE TRACKING
TRACKING (POSITION)

SATELLITE IMAGERY

- RT ATMOSPHERIC CORRECTION
IMAGE ANALYSIS
IMAGERY
IMAGING TECHNIQUES
SATELLITE OBSERVATION
SATELLITE-BORNE PHOTOGRAPHY
VEGETATIVE INDEX

• SCANDINAVIA

- RT DENMARK
FINLAND
NORWAY
SWEDEN

• SCARPS

- USE ESCARPMENTS

SDV

- USE SHUTTLE DERIVED VEHICLES

SEASAT 1

- GS SATELLITES
 . ARTIFICIAL SATELLITES
 . . SEASAT SATELLITES
 . . . SEASAT 1

SEASAT 1-(CONT.)

. EARTH SATELLITES
 . . SEASAT SATELLITES
 . . . SEASAT 1
 RT LANDSAT SATELLITES
 NASA PROGRAMS
 OCEANOGRAPHY
 PROGRAMS
 SEASAT-B SATELLITE

SELECTIVE SURFACES

UF SOLAR SELECTIVE COATINGS
 RT ENERGY ABSORPTION FILMS
 SELECTIVITY
 SOLAR COLLECTORS
 SOLAR ENERGY ABSORBERS

• SELF SHADOWING

RT LARGE SPACE STRUCTURES
 SHADOWS
 SOLAR ARRAYS

SEO (INDIAN SPACECRAFT)

USE INDIAN SPACECRAFT

SFAR

USE SOUND FIXING AND RANGING

SHELL ANODES

GS ELECTRODES
 . ANODES
 . . SHELL ANODES
 RT HEAT MEASUREMENT

SHIP TO SHORE COMMUNICATION

GS TELECOMMUNICATION
 . COMMUNICATION
 . . SHIP TO SHORE COMMUNICATION
 RT DATA TRANSMISSION
 RADIO COMMUNICATION
 SHIPS
 TELEMETRY

SHORT CIRCUIT CURRENTS

GS ELECTRIC CURRENT
 . SHORT CIRCUIT CURRENTS
 RT OPEN CIRCUIT VOLTAGE
 PHOTOVOLTAIC CELLS
 SHORT CIRCUITS
 SOLAR CELLS
 VOLT-AMPERE CHARACTERISTICS

SHUTTLE DERIVED VEHICLES

UF SDV
 GS MANNED SPACECRAFT
 . SHUTTLE DERIVED VEHICLES
 RT SPACE SHUTTLE ORBITERS
 SPACE SHUTTLES
 ∞SPACECRAFT
 SPACECRAFT DESIGN

• SOBOLEV SPACE

GS ALGEBRA
 . VECTOR SPACES
 . . HILBERT SPACE
 . . . BANACH SPACE
 SOBOLEV SPACE
 ANALYSIS (MATHEMATICS)
 . FUNCTION SPACE
 . . HILBERT SPACE
 . . . BANACH SPACE
 SOBOLEV SPACE
 . FUNCTIONAL ANALYSIS
 . . HILBERT SPACE
 . . . BANACH SPACE
 SOBOLEV SPACE
 RT BOUNDARY VALUE PROBLEMS
 EUCLIDEAN GEOMETRY

SOFAR

USE SOUND FIXING AND RANGING

SOFTWARE ENGINEERING

GS SOFTWARE ENGINEERING
 . COMPUTER PROGRAMMING
 . . ASSEMBLER ROUTINES
 . . LANGUAGE PROGRAMMING
 . . LOGIC PROGRAMMING
 . . MICROPROGRAMMING
 . . MULTIPROGRAMMING
 . . ON-LINE PROGRAMMING
 . . PARALLEL PROGRAMMING
 . . SYMBOLIC PROGRAMMING
 RT COMPUTER PROGRAMS

SOFTWARE ENGINEERING-(CONT.)

COMPUTER SYSTEMS DESIGN
 COMPUTER SYSTEMS PROGRAMS
 DATA BASES
 SOFTWARE TOOLS
 SYSTEMS ENGINEERING

SOFTWARE TOOLS

RT ARCHITECTURE (COMPUTERS)
 COMPUTER PROGRAMMING
 COMPUTER PROGRAMS
 COMPUTER SYSTEMS DESIGN
 COMPUTER SYSTEMS PROGRAMS
 DATA BASE MANAGEMENT SYSTEMS
 PROGRAM VERIFICATION (COMPUTERS)
 SOFTWARE ENGINEERING

SOLAR BACKSCATTER UV SPECTROMETER

GS MEASURING INSTRUMENTS
 . SPECTROMETERS
 . . SOLAR BACKSCATTER UV
 SPECTROMETER
 RT IRRADIANCE
 SATELLITE-BORNE INSTRUMENTS

• SOLAR LASERS

USE SOLAR-PUMPED LASERS

SOLAR OPTICAL TELESCOPE

UF SOT
 GS TELESCOPES
 . SPACEBORNE TELESCOPES
 . . SOLAR OPTICAL TELESCOPE
 RT ASTRONOMICAL TELESCOPES
 SOLAR INSTRUMENTS
 SOLAR PHYSICS

SOLAR PLANETARY INTERACTIONS

GS SOLAR PLANETARY INTERACTIONS
 . SOLAR TERRESTRIAL INTERACTIONS
 RT MAGNETIC DISTURBANCES
 MAGNETOSPHERE
 PLANETARY ATMOSPHERES
 PLANETARY MAGNETIC FIELDS
 PLASMA INTERACTIONS
 SOLAR ACTIVITY
 SOLAR ACTIVITY EFFECTS
 SOLAR CORPUSCULAR RADIATION
 SOLAR WIND
 SOLAR WIND VELOCITY

SOLAR RECEIVERS

USE SOLAR COLLECTORS

SOLAR SELECTIVE COATINGS

USE SELECTIVE SURFACES

SOLAR THERMAL ELECTRIC POWER PLANTS

GS ELECTRIC POWER PLANTS
 . SOLAR THERMAL ELECTRIC POWER
 PLANTS
 RT ∞POWER PLANTS
 SOLAR ENERGY
 THERMAL ENERGY

• SOLAR-PUMPED LASERS

UF SOLAR LASERS
 GS STIMULATED EMISSION DEVICES
 . LASERS
 . . SOLAR-PUMPED LASERS
 RT LASER PUMPING
 OPTICAL PUMPING
 SOLAR ENERGY CONVERSION
 SOLAR RADIATION

SOLRAD 10 SATELLITE

USE EXPLORER 44 SATELLITE

SONIC FATIGUE

USE ACOUSTIC FATIGUE

SOT

USE SOLAR OPTICAL TELESCOPE

SOUND FIXING AND RANGING

UF SFAR
 SOFAR
 RT SOUND RANGING
 SOUND TRANSMISSION
 UNDERWATER ACOUSTICS

SPACE COMMERCIALIZATION

RT AEROSPACE INDUSTRY

SPACE COMMERCIALIZATION-(CONT.)

COMMERCIAL SPACECRAFT
 COMMUNICATION SATELLITES
 ∞MICROGRAVITY APPLICATIONS
 SPACE INDUSTRIALIZATION
 SPACE MANUFACTURING
 SPACE PROCESSING
 SPACECRAFT LAUNCHING
 TECHNOLOGY TRANSFER

• SPACE HABITATS

RT AEROSPACE ENVIRONMENTS
 CLOSED ECOLOGICAL SYSTEMS
 LIFE SUPPORT SYSTEMS
 SPACE COLONIES
 SPACE STATIONS
 SPACECREWS

• SPACE OPERATIONS CENTER (NASA)

GS MANNED SPACECRAFT
 . SPACE STATIONS
 . . ORBITAL SPACE STATIONS
 . . . SPACE OPERATIONS CENTER
 (NASA)
 STATIONS
 . SPACE STATIONS
 . . ORBITAL SPACE STATIONS
 . . . SPACE OPERATIONS CENTER
 (NASA)
 RT LARGE SPACE STRUCTURES
 ORBITAL ASSEMBLY
 ORBITAL SERVICING

• SPACE SHUTTLE ORBITER 103

GS TRANSPORTATION
 . SPACE TRANSPORTATION
 . . SPACE TRANSPORTATION SYSTEM
 . . . SPACE SHUTTLE ORBITERS
 SPACE SHUTTLE ORBITER 103
 RT MANNED SPACE FLIGHT
 RECOVERABLE SPACECRAFT
 REUSABLE SPACECRAFT
 ∞SPACECRAFT

• SPACE SHUTTLE ORBITER 104

GS TRANSPORTATION
 . SPACE TRANSPORTATION
 . . SPACE TRANSPORTATION SYSTEM
 . . . SPACE SHUTTLE ORBITERS
 SPACE SHUTTLE ORBITER 104
 RT MANNED SPACE FLIGHT
 RECOVERABLE SPACECRAFT
 REUSABLE SPACECRAFT
 ∞SPACECRAFT

• SPACECRAFT EQUIPMENT

GS ONBOARD EQUIPMENT
 . SPACECRAFT EQUIPMENT
 . . SPACECRAFT ELECTRONIC
 EQUIPMENT
 RT ∞EQUIPMENT
 SPACECRAFT INSTRUMENTS

• SPACECRAFT MAINTENANCE

GS MAINTENANCE
 . SPACECRAFT MAINTENANCE
 RT CHECKOUT
 PRELAUNCH TESTS
 SPACE VEHICLE CHECKOUT PROGRAM
 SPACECRAFT RELIABILITY
 TURNAROUND (STS)

• SPECTRAL METHODS

RT COMPUTATIONAL FLUID DYNAMICS
 DIFFERENTIAL EQUATIONS
 SPECTRUM ANALYSIS

SPECTROPHOTOVOLTAICS

RT ENERGY CONVERSION EFFICIENCY
 ENERGY SPECTRA
 SOLAR CELLS
 SOLAR COLLECTORS

• SPEECHES

USE LECTURES

SPRING (SEASON)

GS SEASONS
 . SPRING (SEASON)
 RT AUTUMN
 SUMMER
 WINTER

STATIC CHARACTERISTICS

• STATIC CHARACTERISTICS

SN (EXCLUDES STATICS)
GS **STATIC CHARACTERISTICS**
 . STATIC AERODYNAMIC CHARACTERISTICS
RT **STATIC LOADS**
 . STATIC STABILITY
 . STATIC TESTS

STATIC MODELS

GS **MODELS**
 . **STATIC MODELS**
RT **APPROXIMATION**
 . DYNAMIC MODELS
 . OPTIMIZATION

• STELLAR ACTIVITY

GS **STELLAR ACTIVITY**
 . SOLAR ACTIVITY
 . . FACULAE
 . . SOLAR PROMINENCES
 . . SOLAR STORMS
 . . SPICULES
 . . STELLAR FLARES
 . . . SOLAR FLARES
 . . SUNSPOTS
 . . STARSPOTS
RT **FLARE STARS**
 . FLARES
 . MAGNETIC DISTURBANCES
 . MAGNETOHYDRODYNAMICS
 . PHOTOSPHERE
 . STARS
 . STELLAR LUMINOSITY
 . STELLAR MAGNETIC FIELDS
 . STELLAR MASS EJECTION
 . STELLAR OSCILLATIONS
 . STELLAR RADIATION
 . SUNSPOT CYCLE

STELLAR COLOR

RT **STELLAR LUMINOSITY**
 . STELLAR MAGNITUDE
 . STELLAR SPECTRA
 . STELLAR SPECTROPHOTOMETRY

• STELLAR COMPOSITION

GS **COMPOSITION (PROPERTY)**
 . CHEMICAL COMPOSITION
 . . **STELLAR COMPOSITION**
RT **ABUNDANCE**
 . B STARS
 . CARBON STARS
 . STARS
 . STELLAR MODELS
 . STELLAR STRUCTURE

• STELLAR CORES

GS **CORES**
 . **STELLAR CORES**
RT **ASTROPHYSICS**
 . GRAVITATIONAL COLLAPSE
 . LUNAR CORE
 . PLANETARY CORES
 . STARS
 . STELLAR CORONAS
 . STELLAR STRUCTURE

STEREOPHONICS

RT **ACOUSTICS**
 . HEARING

STRANGE ATTRACTORS

RT **FRACTALS**
 . IMBEDDINGS (MATHEMATICS)
 . ITERATIVE SOLUTION
 . NONLINEAR SYSTEMS
 . NUMERICAL STABILITY
 . PERTURBATION THEORY
 . . PHYSICS
 . . RECURSIVE FUNCTIONS
 . . STATE VECTORS
 . . THEORETICAL PHYSICS
 . . TURBULENCE

STRATEGIC MATERIALS

RT **CHROMIUM**
 . COBALT
 . MANGANESE
 . . MATERIALS
 . . METALS
 . . STOCKPILING
 . . TECHNOLOGY ASSESSMENT

SUPERCOMPUTERS

GS **SUPERCOMPUTERS**
 . CRAY COMPUTERS

• SUPERCritical AIRFOILS

GS **AIRFOILS**
 . **SUPERCritical AIRFOILS**
 . . SUPERCritical WINGS
RT **AIRFOIL PROFILES**

SUPERLATTICES

GS **CRYSTAL LATTICES**
 . **SUPERLATTICES**
 . SEMICONDUCTORS (MATERIALS)
 . **SUPERLATTICES**
RT **CRYSTAL DISLOCATIONS**
 . CRYSTAL STRUCTURE
 . LATTICE PARAMETERS

SURFACE NOISE INTERACTIONS

RT **ACOUSTIC EXCITATION**
 . ACOUSTIC SCATTERING
 . AEROACOUSTICS
 . AERODYNAMIC NOISE
 . TURBULENCE

SWATH WIDTH

RT **AGRICULTURAL AIRCRAFT**
 . FLIGHT PATHS
 . REMOTE SENSING
 . SATELLITE OBSERVATION

• SYMBIOTIC STARS

GS **CELESTIAL BODIES**
 . STARS
 . . BINARY STARS
 . . . **SYMBIOTIC STARS**
 . . . HOT STARS
 . . . BLUE STARS
 . . . **SYMBIOTIC STARS**
 . . . PECULIAR STARS
 . . . **SYMBIOTIC STARS**
 . . . VARIABLE STARS
 . . . **SYMBIOTIC STARS**
RT **ABSORPTION SPECTRA**
 . ECLIPSING BINARY STARS
 . EMISSION SPECTRA
 . FLARE STARS
 . M STARS
 . NOVAE
 . STELLAR ENVELOPES
 . STELLAR MASS ACCRETION
 . STELLAR OSCILLATIONS
 . STELLAR SPECTRA
 . STELLAR TEMPERATURE

T

• TAGN

UF **TRIAMINO GUANIDINENITRATE**
GS **OXIDIZERS**
 . ROCKET OXIDIZERS
 . . **TAGN**
 . PROPELLANTS
 . . ROCKET PROPELLANTS
 . . **TAGN**
RT **EXPLOSIVES**

TAIWAN

UF **REPUBLIC OF CHINA**
GS **NATIONS**
 . **TAIWAN**
RT **ASIA**
 . CHINA
 . CHINESE SPACE PROGRAMS
 . CHINESE SPACECRAFT
 . HONG KONG

• TATB

UF **TRIAMINOTRINITROBENZENE**
GS **EXPLOSIVES**
 . **TATB**
 . PROPELLANTS
 . . ROCKET PROPELLANTS
 . . **TATB**
RT **ROCKET OXIDIZERS**

• TAYLOR-GOERTLER INSTABILITY

USE **GOERTLER INSTABILITY**

NASA THESAURUS SUPPLEMENT (PART 1)

• TEARING MODES (PLASMAS)

RT **BALLOONING MODES**
 . MODES

TELEOPERATOR MANEUVERING SYSTEM

USE **TELEOPERATORS**

TELESCOPING STRUCTURES

USE **FOLDING STRUCTURES**

TEMPERATURE RATIO

RT **DATA CORRELATION**
 . HEAT TRANSFER
 . RATIOS
 . TEMPERATURE

• THERMAL ANALYSIS

UF **DTA (ANALYSIS)**
RT **ANALYZING**
 . HEAT TRANSMISSION
 . TEMPERATURE GRADIENTS
 . TEMPERATURE PROFILES

• ∞ THRUSTORS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*
RT **ION ENGINES**
 . ROCKET ENGINES

• TIME TEMPERATURE PARAMETER

RT **AGING (METALLURGY)**
 . AUSTENITIC STAINLESS STEELS
 . EMBRITTLEMENT
 . FRACTURE MECHANICS
 . LONG TERM EFFECTS
 . METALLOGRAPHY
 . PRECIPITATION HARDENING
 . TEMPERATURE EFFECTS

TIP VANES

GS **ROTATING BODIES**
 . ROTORS
 . . **TIP VANES**
 . . TURBOMACHINERY
 . . TURBINES
 . . WIND TURBINES
 . . . **TIP VANES**

• TOPPING CYCLE ENGINES

RT **AIRCRAFT ENGINES**
 . LIQUID HYDROGEN
 . PROPULSION SYSTEM CONFIGURATIONS

TRANSIT NAVIGATION SYSTEM

GS **SATELLITE NAVIGATION SYSTEMS**
 . **TRANSIT NAVIGATION SYSTEM**
RT **NASA PROGRAMS**
 . NAVIGATION SATELLITES
 . NOVA SATELLITES
 . TRANSIT SATELLITES

• TRIAMINO GUANIDINENITRATE

USE **TAGN**

• TRIAMINOTRINITROBENZENE

USE **TATB**

TRIBOLUMINESCENCE

GS **DECAY**
 . EMISSION
 . . LIGHT EMISSION
 . . . LUMINESCENCE
 PHOTOLUMINESCENCE
 **TRIBOLUMINESCENCE**
RT **FLUORESCENCE**
 . FRICTION
 . MECHANICAL PROPERTIES
 . PHOTOLUMINESCENT BANDS
 . STRESSES
 . TRIBOLOGY

• TYROSINE

GS **ACIDS**
 . AMINO ACIDS
 . . **TYROSINE**
 . . ORGANIC COMPOUNDS
 . . AMINO ACIDS
 . . . **TYROSINE**
RT **ENZYME ACTIVITY**
 . LIVER

U

ULTRALIGHT AIRCRAFT

RT ∞ AIRCRAFT
HANG GLIDERS
LIGHT AIRCRAFT
∞ WINGED VEHICLES

UNIFIED FIELD THEORY

GS FIELD THEORY (PHYSICS)
. UNIFIED FIELD THEORY
RT EINSTEIN EQUATIONS
ELECTROMAGNETIC FIELDS
ELECTROMAGNETIC INTERACTIONS
ELECTROMAGNETISM
GRAVITATION THEORY
GRAVITATIONAL FIELDS
PARTICLE THEORY
PLASMA PHYSICS
RELATIVITY
THEORETICAL PHYSICS

• UNITED STATES

UF USA (UNITED STATES)
GS NATIONS
. UNITED STATES
.. ALABAMA
.. ALASKA
.. ARIZONA
.. ARKANSAS
.. CALIFORNIA
.. COLORADO
.. CONNECTICUT
.. DELAWARE
.. FLORIDA
.. GEORGIA
.. HAWAII
.. IDAHO
.. ILLINOIS
.. INDIANA
.. IOWA
.. KANSAS
.. KENTUCKY
.. LOUISIANA
.. MAINE
.. MARYLAND
.. MASSACHUSETTS
.. MICHIGAN
.. MINNESOTA
.. MISSISSIPPI
.. MISSOURI
.. MONTANA
.. NEBRASKA
.. NEVADA
.. NEW HAMPSHIRE
.. NEW JERSEY
.. NEW MEXICO
.. NEW YORK
.. NORTH CAROLINA
.. NORTH DAKOTA
.. OHIO
.. OKLAHOMA
.. OREGON
.. PENNSYLVANIA
.. RHODE ISLAND
.. SOUTH CAROLINA
.. SOUTH DAKOTA
.. TENNESSEE
.. TEXAS
.. UTAH
.. VERMONT
.. VIRGINIA
.. WASHINGTON
.. WEST VIRGINIA
.. WISCONSIN
.. WYOMING
RT ALEUTIAN ISLANDS (US)
CASCADE RANGE (CA-OR-WA)
CENTRAL ATLANTIC REGION (US)
DISTRICT OF COLUMBIA
GREAT LAKES (NORTH AMERICA)
GREAT PLAINS CORRIDOR (NORTH AMERICA)
GUAM
INTERNATIONAL FIELD YEAR FOR GREAT LAKES
INTERNATIONAL HYDROLOGICAL DECADE
MISSOURI RIVER (US)
NEW ENGLAND (US)
NORTH AMERICA
PACIFIC NORTHWEST (US)
PANAMA CANAL ZONE
PUERTO RICO
ROCKY MOUNTAINS (NORTH AMERICA)

UNITED STATES-(CONT.)

SOUTHERN CALIFORNIA
VIRGIN ISLANDS

US-2A AIRCRAFT

USE S-2 AIRCRAFT

V

VCO

USE VOLTAGE CONTROLLED OSCILLATORS

VEGETATIVE INDEX

RT AGRISTARS PROJECT
ATMOSPHERIC ATTENUATION
ATMOSPHERIC EFFECTS
ATMOSPHERIC OPTICS
ATMOSPHERIC SCATTERING
CANOPIES (VEGETATION)
COLOR
CORRECTION
CROP IDENTIFICATION
CROP INVENTORIES
IMAGE ENHANCEMENT
IMAGING TECHNIQUES
MULTISPECTRAL BAND SCANNERS
RADIOMETRIC CORRECTION
REFLECTANCE
REMOTE SENSING
SATELLITE IMAGERY
SATELLITE OBSERVATION
SPECTRAL REFLECTANCE
VEGETATION GROWTH

VERTICAL ATTITUDE TAKEOFF-LANDING

AIRCRAFT

USE VATOL AIRCRAFT

VERY LARGE SCALE INTEGRATION

UF VLSI
GS CIRCUITS
. INTEGRATED CIRCUITS
.. VERY LARGE SCALE INTEGRATION
RT ARCHITECTURE (COMPUTERS)
CHIPS (ELECTRONICS)
LARGE SCALE INTEGRATION

• VIDEO SIGNALS

RT SIGNAL PROCESSING
SIGNAL TRANSMISSION
∞ SIGNALS
VIDEO COMMUNICATION
VIDEO DATA

VIRTUAL MEMORY SYSTEMS

RT COMPUTER SYSTEMS DESIGN
DATA MANAGEMENT
DATA STORAGE
MAGNETIC STORAGE

VLSI

USE VERY LARGE SCALE INTEGRATION

VOLTAGE CONTROLLED OSCILLATORS

UF VCO
GS OSCILLATORS
. VOLTAGE CONTROLLED OSCILLATORS
RT CIRCUITS
ELECTRIC CONTROL
ELECTRIC NETWORKS
FREQUENCY MODULATION
FREQUENCY STABILITY
MICROWAVE OSCILLATORS
VOLTAGE REGULATORS

VORTEX PRECESSION

RT FLOW VELOCITY
FLOWMETERS
PRECESSION
VELOCITY MEASUREMENT
VORTICES

W

WASTE HEAT

RT ENERGY TECHNOLOGY
HEAT EXCHANGERS

XENON CHLORIDE LASERS

WASTE HEAT-(CONT.)

HEAT PUMPS
WASTE ENERGY UTILIZATION

WESTERN HEMISPHERE

RT EARTH (PLANET)
EASTERN HEMISPHERE
GEOGRAPHY

WHIRL TOWERS

RT HELICOPTER DESIGN
HOVERING
HOVERING STABILITY
PARACHUTES
ROTARY WINGS
ROTOR AERODYNAMICS
SPIN TESTS

WOLFRAM

USE TUNGSTEN

X

X RAY TIMING EXPLORER

GS SATELLITES
.. ARTIFICIAL SATELLITES
.. EXPLORER SATELLITES
... X RAY TIMING EXPLORER
.. EARTH SATELLITES
.. EXPLORER SATELLITES
... X RAY TIMING EXPLORER

XENON CHLORIDE LASERS

GS STIMULATED EMISSION DEVICES
.. LASERS
.. GAS LASERS
.. XENON CHLORIDE LASERS
.. RARE GAS-HALIDE LASERS
... XENON CHLORIDE LASERS
RT ELECTRON TRANSITIONS
EXCIMER LASERS
LASER MATERIALS
LASER OUTPUTS
ULTRAVIOLET LASERS

NASA THESAURUS SUPPLEMENT

PART 2 ACCESS VOCABULARY

A

A-310 AIRCRAFT

A-320 AIRCRAFT

Access, Demand Assignment Multiple
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

ACCOUNTING

ACCRETION DISKS

Accuracy, Geodetic
USE GEODETIC ACCURACY

Accuracy, Geometric
USE GEOMETRIC ACCURACY

ACEE PROGRAM

Activity, Stellar
USE STELLAR ACTIVITY

ADA (PROGRAMMING LANGUAGE)

Adenosine Monophosphate, Cyclic
USE CYCLIC AMP

AEROASSIST

AEROBRAKING

AEROCAPTURE

Aerodynamic And Struct Test, Drones For
USE DAST PROGRAM

Aerodynamics, Interactional
USE INTERACTIONAL AERODYNAMICS

AEROELASTIC RESEARCH WINGS

AEROMAGNETISM

AEROMANEUVERING

AGROPHYSICAL UNITS

Aided Design, Computer
USE COMPUTER AIDED DESIGN

Aided Manufacturing, Computer
USE COMPUTER AIDED MANUFACTURING

Aided Mapping, Computer
USE COMPUTER AIDED MAPPING

Air Pollution, Indoor
USE INDOOR AIR POLLUTION

AIR START

Aircraft, A-310
USE A-310 AIRCRAFT

Aircraft, A-320
USE A-320 AIRCRAFT

Aircraft, Electric
USE FLY BY WIRE CONTROL

Aircraft Energy Efficiency Program
USE ACEE PROGRAM

Aircraft, Highly Maneuverable
USE HIGHLY MANEUVERABLE AIRCRAFT

AIRCRAFT POWER SUPPLIES

Aircraft, Ultralight
USE ULTRALIGHT AIRCRAFT

Aircraft, US-2A
USE S-2 AIRCRAFT

Aircraft, Vertical Attitude Takeoff-Landing
USE VATOL AIRCRAFT

Airfoils, Supercritical
USE SUPERCRITICAL AIRFOILS

ALBERTA

Alcock Comet, Iras-Araki-
USE IRAS-ARAKI-ALCOCK COMET

ALLENDE METEORITE

Amp, Cyclic
USE CYCLIC AMP

Analysis, Cluster
USE CLUSTER ANALYSIS

Analysis, Data Flow
USE DATA FLOW ANALYSIS

Analysis, Gas Path
USE GAS PATH ANALYSIS

Analysis, Image
USE IMAGE ANALYSIS

Analysis, Principal Components
USE PRINCIPAL COMPONENTS ANALYSIS

Analysis, Thermal
USE THERMAL ANALYSIS

ANIK SATELLITES

Anode Microchannel Arrays, Multi-
USE MULTI-ANODE MICROCHANNEL ARRAYS

Anodes, Shell
USE SHELL ANODES

Anomalies, Geothermal
USE GEOTHERMAL ANOMALIES

Antennas, Multibeam
USE MULTIBEAM ANTENNAS

Antennas, Plasma
USE PLASMA ANTENNAS

Antistatic Devices
USE STATIC DISCHARGERS

APL (PROGRAMMING LANGUAGE)

Applications, Microgravity
USE MICROGRAVITY APPLICATIONS

ARABSAT

Araki-Alcock Comet, Iras-
USE IRAS-ARAKI-ALCOCK COMET

ARC CLOUDS

ARIES SOUNDING ROCKET

Arrays, Multi-Anode Microchannel
USE MULTI-ANODE MICROCHANNEL ARRAYS

Arrest, Crack
USE CRACK ARREST

Assignment Multiple Access, Demand
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

ASTRONOMICAL SATELLITES

(Astronomy), Local Group
USE LOCAL GROUP (ASTRONOMY)

ASYMPTOTIC PROPERTIES

Atmosphere, Lunar
USE LUNAR ATMOSPHERE

Atmospheres, Neutral
USE NEUTRAL ATMOSPHERES

ATMOSPHERIC CORRECTION

Atmospheric Loading
USE POLLUTION TRANSPORT

Attitude Takeoff-Landing Aircraft, Vertical
USE VATOL AIRCRAFT

Attractors, Strange
USE STRANGE ATTRACTORS

AUDIO DATA

AUDIO SIGNALS

AUTOMATED TRANSIT VEHICLES

AUTUMN

AWARDS

B

B, Gravity Probe
USE GRAVITY PROBE B

B Satellite, Magsat
USE MAGSAT B SATELLITE

Backscatter UV Spectrometer, Solar
USE SOLAR BACKSCATTER UV SPECTROMETER

BACKWARD DIFFERENCING

BACKWARD FACING STEPS

BAHAMAS

BALLOONING MODES

BAND RATIOING

BANDSTOP FILTERS

BARYON RESONANCE

Bases, Numerical Data
USE NUMERICAL DATA BASES

Bearings, Magnetic

Bearings, Magnetic
USE MAGNETIC BEARINGS

Benard Convection, Rayleigh-
USE RAYLEIGH-BENARD CONVECTION

BENIN

Beta Interactions
USE WEAK INTERACTIONS (FIELD THEORY)

BIOFEEDBACK

(Biology), Desynchronization
USE DESYNCHRONIZATION (BIOLOGY)

BIOT NUMBER

Biphenyls, Polybrominated
USE POLYBROMINATED BIPHENYLS

Bistability, Optical
USE OPTICAL BISTABILITY

BIT ERROR RATE

Body Interactions, Rotor-
USE ROTOR BODY INTERACTIONS

Braking, Aero
USE AEROBRAKING

BRAZILIAN SPACE PROGRAM

BRITISH COLUMBIA

Bruceston Test
USE STATISTICAL TESTS

Brunswick, New
USE NEW BRUNSWICK

BRUNT-VAISALA FREQUENCY

Bubbles, Plasma
USE PLASMA BUBBLES

BURN-IN

Burning, Hole
USE HOLE BURNING

Business Management
USE INDUSTRIAL MANAGEMENT

C

CAD (Design)
USE COMPUTER AIDED DESIGN

CAM (Manufacturing)
USE COMPUTER AIDED MANUFACTURING

Cambodia
USE KAMPUCHEA

CANADIAN SPACECRAFT

CARIBBEAN REGION

Carrier, European Retrievable
USE EURECA (ESA)

Carrington Rotation
USE SOLAR ROTATION

Casting, Sand
USE SAND CASTING

CATAclysmic Variables

CAVITONS

CDC CYBER 205 COMPUTER

Center (NASA), Space Operations
USE SPACE OPERATIONS CENTER (NASA)

CERAMIC MATRIX COMPOSITES

CHANGE DETECTION

Characteristics, Static
USE STATIC CHARACTERISTICS

Chemistry, Computational
USE COMPUTATIONAL CHEMISTRY

Chloride Lasers, Xenon
USE XENON CHLORIDE LASERS

Chromatography, Gel Permeation
USE LIQUID CHROMATOGRAPHY

Circuit Currents, Short
USE SHORT CIRCUIT CURRENTS

CIRCULAR WAVEGUIDES

CIRCULATION DISTRIBUTION

City (NY), New York
USE NEW YORK CITY (NY)

Clouds, Arc
USE ARC CLOUDS

Clouds, Ophiuchi
USE OPHIUCHI CLOUDS

CLUSTER ANALYSIS

Coatings, Solar Selective
USE SELECTIVE SURFACES

Coefficients, Drag
USE DRAG COEFFICIENTS

Color, Stellar
USE STELLAR COLOR

Columbia, British
USE BRITISH COLUMBIA

Comet, Encke
USE ENCKE COMET

Comet, Iras-Araki-Alcock
USE IRAS-ARAKI-ALCOCK COMET

COMMAND LANGUAGES

COMMERCIAL SPACECRAFT

Commercialization, Space
USE SPACE COMMERCIALIZATION

COMMONALITY

Communication, Ship To Shore
USE SHIP TO SHORE COMMUNICATION

Communication Systems, Mobile
USE MOBILE COMMUNICATION SYSTEMS

Components Analysis, Principal
USE PRINCIPAL COMPONENTS ANALYSIS

Composites, Ceramic Matrix
USE CERAMIC MATRIX COMPOSITES

Composition, Stellar
USE STELLAR COMPOSITION

COMPULSATORS

COMPUTATIONAL CHEMISTRY

COMPUTATIONAL GRIDS

COMPUTER AIDED DESIGN

COMPUTER AIDED MANUFACTURING

COMPUTER AIDED MAPPING

Computer, CDC Cyber 205
USE CDC CYBER 205 COMPUTER

NASA THESAURUS SUPPLEMENT (PART 2)

Computer Systems, Embedded
USE EMBEDDED COMPUTER SYSTEMS

Computerized Design
USE COMPUTER AIDED DESIGN

Computers, Cray
USE CRAY COMPUTERS

(Computers), Memory
USE MEMORY (COMPUTERS)

Computers, Micro
USE MICROCOMPUTERS

Computers, Nova
USE NOVA COMPUTERS

Computers, Optical
USE OPTICAL COMPUTERS

Computers, Personal
USE PERSONAL COMPUTERS

(Computers), Protocol
USE PROTOCOL (COMPUTERS)

CONCURRENT PROCESSING

CONDENSATION NUCLEI

CONDENSERS (LIQUEFIERS)

CONJUGATE GRADIENT METHOD

Continental Margins
USE CONTINENTAL SHELVES

CONTINUUM MODELING

Controlled Oscillators, Voltage
USE VOLTAGE CONTROLLED OSCILLATORS

CONTROLLED SYSTEMS DESIGN

Controllers, Power Factor
USE POWER FACTOR CONTROLLERS

Convection, Marangoni
USE MARANGONI CONVECTION

Convection, Rayleigh-Benard
USE RAYLEIGH-BENARD CONVECTION

Coolant Loss
USE LOSS OF COOLANT

Coolant, Loss Of
USE LOSS OF COOLANT

Coordinates, Cylindrical
USE CARTESIAN COORDINATES

Cores, Stellar
USE STELLAR CORES

COROTATION

Correction, Atmospheric
USE ATMOSPHERIC CORRECTION

Cosmic Rays, Galactic
USE GALACTIC COSMIC RAYS

COSMOS 954 SATELLITE

COSPAS

Couplers, Directional
USE DIRECTIONAL COUPLERS

Coupling, Mode
USE COUPLED MODES

CRACK ARREST

CRACK TIPS

CRANK-NICHOLSON METHOD

Cranked Wings
USE SWEPT WINGS

CRAY COMPUTERS

Currents, Short Circuit
USE SHORT CIRCUIT CURRENTS

Cusps, Polar
USE POLAR CUSPS

Cyber 205 Computer, CDC
USE CDC CYBER 205 COMPUTER

Cycle Engines, Topping
USE TOPPING CYCLE ENGINES

Cyclic Adenosine Monophosphate
USE CYCLIC AMP

CYCLIC AMP

Cylindrical Coordinates
USE CARTESIAN COORDINATES

D

Dahomey
USE BENIN

DAMA
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

DAST PROGRAM

Data, Audio
USE AUDIO DATA

Data Bases, Numerical
USE NUMERICAL DATA BASES

DATA FLOW ANALYSIS**DATA INTEGRATION**

(Data Processing), Frames
USE FRAMES (DATA PROCESSING)

DATA SIMULATION**DATA STRUCTURES**

Defense Meteorological Satellite Program
USE DMSP SATELLITES

DEMAND ASSIGNMENT MULTIPLE ACCESS

Depth, Mixing
USE MIXING HEIGHT

Derived Vehicles, Shuttle
USE SHUTTLE DERIVED VEHICLES

DESERTIFICATION

(Design), CAD
USE COMPUTER AIDED DESIGN

Design, Computer Aided
USE COMPUTER AIDED DESIGN

Design, Controlled Systems
USE CONTROLLED SYSTEMS DESIGN

Design, Experiment
USE EXPERIMENT DESIGN

DESYNCHRONIZATION (BIOLOGY)

Detection, Change
USE CHANGE DETECTION

Devices, Antistatic
USE STATIC DISCHARGERS

Diagram, HR
USE HERTZSPRUNG-RUSSELL DIAGRAM

DIDYMIUM

Differencing, Backward
USE BACKWARD DIFFERENCING

DIFFERENTIAL ANALYZERS

Dikes (Geology)
USE ROCK INTRUSIONS

DINING PHILOSOPHERS PROBLEM**DIRECTION FINDING****DIRECTIONAL COUPLERS****DIRECTORIES**

Disks, Accretion
USE ACCRETION DISKS

Disks, Optical
USE OPTICAL DISKS

Disposal (In Space), Hazardous Material
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

DISTRIBUTED PROCESSING

Distribution, Circulation
USE CIRCULATION DISTRIBUTION

DMSP SATELLITES

Doppler Positioning, Satellite
USE SATELLITE DOPPLER POSITIONING

Double Stars
USE BINARY STARS

DRAG COEFFICIENTS**DREDGING**

Drones For Aerodynamic And Struct Test
USE DAST PROGRAM

DWARF GALAXIES

Dwarf Stars, Red
USE RED DWARF STARS

E

E, NOAA
USE NOAA 8 SATELLITE

Earth Neighborhood, Origin Of Plasmas In
USE OPEN PROJECT

EARTHNET**EASTERN HEMISPHERE**

Edward Island, Prince
USE PRINCE EDWARD ISLAND

Efficiency Program, Aircraft Energy
USE ACEE PROGRAM

Efficiency Transport Program, Energy
USE ACEE PROGRAM

Einstein Observatory
USE HEAO 2

Electric Aircraft
USE FLY BY WIRE CONTROL

ELECTRIC FURNACES

Electric Power Plants, Solar Thermal
USE SOLAR THERMAL ELECTRIC POWER PLANTS

ELECTROCHROMISM**ELECTRODE MATERIALS**

Electronics, Quantum
USE QUANTUM ELECTRONICS

EMBEDDED COMPUTER SYSTEMS

Empennage
USE TAIL ASSEMBLIES

ENCKE COMET

Energy Efficiency Program, Aircraft
USE ACEE PROGRAM

Energy Efficiency Transport Program
USE ACEE PROGRAM

Engineering, Software
USE SOFTWARE ENGINEERING

Engines, Rotary
USE ROTARY ENGINES

Engines, Topping Cycle
USE TOPPING CYCLE ENGINES

Equipment, Spacecraft
USE SPACECRAFT EQUIPMENT

Error Rate, Bit
USE BIT ERROR RATE

(ESA), Eureka
USE EURECA (ESA)

EURECA (ESA)

European Large Telecomm Satellite
USE L-SAT

European Retrievable Carrier
USE EURECA (ESA)

Exercise
USE PHYSICAL EXERCISE

Exper, Feature Identification And Location
USE FEATURE IDENTIFICATION AND LOCATION
EXPER

EXPERIMENT DESIGN**EXPERT SYSTEMS**

Explorer, Far UV Spectroscopic
USE FAR UV SPECTROSCOPIC EXPLORER

Explorer, X Ray Timing
USE X RAY TIMING EXPLORER

EXPLORER 44 SATELLITE**EXPLORER 46 SATELLITE**

Extraction, Feature
USE PATTERN RECOGNITION

F

Facing Steps, Backward
USE BACKWARD FACING STEPS

Facing Steps, Rearward
USE BACKWARD FACING STEPS

Factor Controllers, Power
USE POWER FACTOR CONTROLLERS

FAR UV SPECTROSCOPIC EXPLORER**FASTING**

Fatigue, Sonic
USE ACOUSTIC FATIGUE

Fauna
USE ANIMALS

Feature Extraction

Feature Extraction
USE PATTERN RECOGNITION

FEATURE IDENTIFICATION AND LOCATION EXPER

Feedback, Bio
USE BIOFEEDBACK

Field Theory, Unified
USE UNIFIED FIELD THEORY

Filters, Bandstop
USE BANDSTOP FILTERS

Finding, Direction
USE DIRECTION FINDING

Fire Retardants
USE FLAME RETARDANTS

FIRMWARE

FISCHER-TROPSCH PROCESS

Fixation, Nitrogen
USE NITROGENATION

Fixing And Ranging, Sound
USE SOUND FIXING AND RANGING

FLAPERONS

FLAVOR (PARTICLE PHYSICS)

FLIGHT MANAGEMENT SYSTEMS

FLOAT ZONES

Flow Analysis, Data
USE DATA FLOW ANALYSIS

FLUID MANAGEMENT

FLUID-SOLID INTERACTIONS

FORMYL IONS

FRACTALS

FRAMES (DATA PROCESSING)

Frequency, Brunt-Vaisala
USE BRUNT-VAISALA FREQUENCY

Functions, Green's
USE GREEN'S FUNCTIONS

Furnaces, Electric
USE ELECTRIC FURNACES

G

GALACTIC COSMIC RAYS

Galaxies, Dwarf
USE DWARF GALAXIES

GAS PATH ANALYSIS

Gel Permeation Chromatography
USE LIQUID CHROMATOGRAPHY

GEODETIC ACCURACY

GEOGRAPHIC INFORMATION SYSTEMS

(Geology), Dikes
USE ROCK INTRUSIONS

GEOMETRIC ACCURACY

GEOHERMAL ANOMALIES

GIOTTO MISSION

GOERTLER INSTABILITY

Goertler Instability, Taylor-
USE GOERTLER INSTABILITY

Gradient Method, Conjugate
USE CONJUGATE GRADIENT METHOD

GRAVITATIONAL PHYSIOLOGY

GRAVITINOS

GRAVITY PROBE B

GRAY SCALE

GREEN'S FUNCTIONS

Grids, Computational
USE COMPUTATIONAL GRIDS

Grids (Mathematics)
USE COMPUTATIONAL GRIDS

Group (Astronomy), Local
USE LOCAL GROUP (ASTRONOMY)

GYRES

H

Habitats, Space
USE SPACE HABITATS

HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

Heat, Waste
USE WASTE HEAT

Height, Mixing
USE MIXING HEIGHT

Hemisphere, Eastern
USE EASTERN HEMISPHERE

Hemisphere, Western
USE WESTERN HEMISPHERE

HIGH REYNOLDS NUMBER

HIGH SPEED PHOTOGRAPHY

HIGHLY MANEUVERABLE AIRCRAFT

HIMAT
USE HIGHLY MANEUVERABLE AIRCRAFT

HIPPARCOS SATELLITE

HOLE BURNING

HR Diagram
USE HERTZSPRUNG-RUSSELL DIAGRAM

HUBBLE SPACE TELESCOPE

HUMAN RELATIONS

I

Identification And Location Exper, Feature
USE FEATURE IDENTIFICATION AND LOCATION
EXPER

IGFET
USE FIELD EFFECT TRANSISTORS

IMAGE ANALYSIS

Imagery, Satellite
USE SATELLITE IMAGERY

Imaging Radar
USE SYNTHETIC APERTURE RADAR

IMAGING RADAR

NASA THESAURUS SUPPLEMENT (PART 2)

Imaging Scope, Low Intensity X Ray
USE LIXISCOPES

In, Burn-
USE BURN-IN

In Earth Neighborhood, Origin Of Plasmas
USE OPEN PROJECT

(In Space), Hazardous Material Disposal
USE HAZARDOUS MATERIAL DISPOSAL (IN
SPACE)

Index, Vegetative
USE VEGETATIVE INDEX

(Indian Spacecraft), IRS
USE INDIAN SPACECRAFT

(Indian Spacecraft), SEO
USE INDIAN SPACECRAFT

INDOOR AIR POLLUTION

Information Systems, Geographic
USE GEOGRAPHIC INFORMATION SYSTEMS

INFORMATION TRANSFER

INFRARED SIGNATURES

INSAT Satellites
USE INDIAN SPACECRAFT

Instability, Goertler
USE GOERTLER INSTABILITY

Instability, Taylor-Goertler
USE GOERTLER INSTABILITY

INTEGRAL ROCKET RAMJETS

INTEGRALS

INTEGRATED LIBRARY SYSTEMS

Integration, Data
USE DATA INTEGRATION

Integration, Very Large Scale
USE VERY LARGE SCALE INTEGRATION

Intensity X Ray Imaging Scope, Low
USE LIXISCOPES

INTERACTIONAL AERODYNAMICS

Interactions, Beta
USE WEAK INTERACTIONS (FIELD THEORY)

Interactions, Fluid-Solid
USE FLUID-SOLID INTERACTIONS

Interactions, Rotor Body
USE ROTOR BODY INTERACTIONS

Interactions, Solar Planetary
USE SOLAR PLANETARY INTERACTIONS

Interactions, Surface Noise
USE SURFACE NOISE INTERACTIONS

INTERDIGITAL TRANSDUCERS

Interpersonal Relations
USE HUMAN RELATIONS

Ion Spectrometers
USE MASS SPECTROMETERS

IONOPAUSE

Ions, Formyl
USE FORMYL IONS

IRAS-ARAKI-ALCOCK COMET

IRS (Indian Spacecraft)
USE INDIAN SPACECRAFT

Island, Prince Edward
USE PRINCE EDWARD ISLAND

J**JAPANESE SPACECRAFT**

(Japanese Spacecraft), MOS
USE JAPANESE SPACECRAFT

Jets, Particle Laden
USE PARTICLE LADEN JETS

JUPITER SATELLITES**K**

K-Mesons
USE KAONS

KAMPUCHEA**L****L-SAT**

Laden Jets, Particle
USE PARTICLE LADEN JETS

LANDSAT 4**LANDSAT 5**

Language), Ada (Programming
USE ADA (PROGRAMMING LANGUAGE)

Language), APL (Programming
USE APL (PROGRAMMING LANGUAGE)

Languages, Command
USE COMMAND LANGUAGES

Languages, Query
USE QUERY LANGUAGES

Large Scale Integration, Very
USE VERY LARGE SCALE INTEGRATION

Large Space Telescope
USE HUBBLE SPACE TELESCOPE

Large Telecomm Satellite, European
USE L-SAT

Lasers, Solar
USE SOLAR-PUMPED LASERS

Lasers, Solar-Pumped
USE SOLAR-PUMPED LASERS

Lasers, Xenon Chloride
USE XENON CHLORIDE LASERS

LEVITATION MELTING

Library Systems, Integrated
USE INTEGRATED LIBRARY SYSTEMS

LIGHT VALVES

(Liquefiers), Condensers
USE CONDENSERS (LIQUEFIERS)

Liquid Plus Solid Zones
USE MUSHY ZONES

Loading, Atmospheric
USE POLLUTION TRANSPORT

LOCAL GROUP (ASTRONOMY)

Location Exper, Feature Identification And
USE FEATURE IDENTIFICATION AND LOCATION
EXPER

LOGIC PROGRAMMING

Loss, Coolant
USE LOSS OF COOLANT

LOSS OF COOLANT

Loss, Power
USE POWER LOSS

Low Intensity X Ray Imaging Scope
USE LIXISCOPES

LOW REYNOLDS NUMBER**LUNAR ATMOSPHERE****M**

Madagascar
USE MALAGASY REPUBLIC

MAGELLAN MISSION**MAGNETIC BEARINGS****MAGSAT B SATELLITE**

Main Sequence Stars, Pre-
USE PRE-MAIN SEQUENCE STARS

Maintenance, Spacecraft
USE SPACECRAFT MAINTENANCE

Management, Business
USE INDUSTRIAL MANAGEMENT

Management, Fluid
USE FLUID MANAGEMENT

Management Systems, Flight
USE FLIGHT MANAGEMENT SYSTEMS

Maneuverable Aircraft, Highly
USE HIGHLY MANEUVERABLE AIRCRAFT

Maneuvering, Aero
USE AEROMANEUVERING

Maneuvering System, Teleoperator
USE TELEOPERATORS

Maneuvering Units, Manned
USE MANNED MANEUVERING UNITS

Maneuvering Vehicles, Orbital
USE ORBITAL MANEUVERING VEHICLES

MANNED MANEUVERING UNITS

(Manufacturing), CAM
USE COMPUTER AIDED MANUFACTURING

Manufacturing, Computer Aided
USE COMPUTER AIDED MANUFACTURING

Mapping, Computer Aided
USE COMPUTER AIDED MAPPING

MASAT**MARANGONI CONVECTION****MARECS MARITIME SATELLITES**

Margins, Continental
USE CONTINENTAL SHELVES

MARINER MARK 2 SPACECRAFT

Maritime Satellites, Marecs
USE MARECS MARITIME SATELLITES

Mark 2 Spacecraft, Mariner
USE MARINER MARK 2 SPACECRAFT

Material Disposal (In Space), Hazardous
USE HAZARDOUS MATERIAL DISPOSAL (IN
SPACE)

Materials, Electrode
USE ELECTRODE MATERIALS

Materials, Strategic
USE STRATEGIC MATERIALS

(Mathematics), Grids
USE COMPUTATIONAL GRIDS

(Mathematics), Mesh
USE COMPUTATIONAL GRIDS

Matrix Composites, Ceramic
USE CERAMIC MATRIX COMPOSITES

Medicine, Nuclear
USE NUCLEAR MEDICINE

MEGAMECHANICS

Melting, Levitation
USE LEVITATION MELTING

MEMORY (COMPUTERS)

Memory Systems, Virtual
USE VIRTUAL MEMORY SYSTEMS

Mesfets
USE FIELD EFFECT TRANSISTORS

Mesh (Mathematics)
USE COMPUTATIONAL GRIDS

MESON RESONANCE**METALLICITY**

Meteorite, Allende
USE ALLENDE METEORITE

Meteorite, Murchison
USE MURCHISON METEORITE

Meteoroid Technology Satellite
USE EXPLORER 46 SATELLITE

Meteorological Satellite Program, Defense
USE DMSP SATELLITES

Method, Conjugate Gradient
USE CONJUGATE GRADIENT METHOD

Method, Crank-Nicholson
USE CRANK-NICHOLSON METHOD

Methods, Spectral
USE SPECTRAL METHODS

Microchannel Arrays, Multi-Anode
USE MULTI-ANODE MICROCHANNEL ARRAYS

Microgravity
USE REDUCED GRAVITY

MICROGRAVITY APPLICATIONS**MICROMECHANICS**

Milankovitch Theory
USE CLIMATOLOGY

MINIMAL SURFACES

Misfets
USE FIELD EFFECT TRANSISTORS

Mission, Magellan
USE MAGELLAN MISSION

Mission, Rosat
USE ROSAT MISSION

Mixing Depth

Mixing Depth
USE MIXING HEIGHT

MIXING HEIGHT

MOBILE COMMUNICATION SYSTEMS

Mode Coupling
USE COUPLED MODES

Modeling, Continuum
USE CONTINUUM MODELING

Models, Static
USE STATIC MODELS

Modes, Ballooning
USE BALLOONING MODES

Modes (Plasmas), Tearing
USE TEARING MODES (PLASMAS)

Monophosphate, Cyclic Adenosine
USE CYCLIC AMP

MOS (Japanese Spacecraft)
USE JAPANESE SPACECRAFT

MOTION SIMULATION

MOZAMBIQUE

MUCUS

MULTI-ANODE MICROCHANNEL ARRAYS

MULTIBEAM ANTENNAS

Multiple Access, Demand Assignment
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

MURCHISON METEORITE

MUSHY ZONES

N

NARROWBAND

(NASA), Space Operations Center
USE SPACE OPERATIONS CENTER (NASA)

Navigation System, Transit
USE TRANSIT NAVIGATION SYSTEM

Nebulae, Reflection
USE REFLECTION NEBULAE

Neighborhood, Origin Of Plasmas In Earth
USE OPEN PROJECT

NEUTRAL ATMOSPHERES

NEW BRUNSWICK

NEW YORK CITY (NY)

NEWFOUNDLAND

Nicholson Method, Crank-
USE CRANK-NICHOLSON METHOD

Nitrogen Fixation
USE NITROGENATION

NITROGENATION

NOAA E
USE NOAA 8 SATELLITE

NOAA 8 SATELLITE

Noise Interactions, Surface
USE SURFACE NOISE INTERACTIONS

North Vietnam
USE VIETNAM

NORTHWEST TERRITORIES

NOVA COMPUTERS

NOVA SATELLITES

NOVA SCOTIA

NOWCASTING

NUCLEAR MEDICINE

Nuclear Wastes
USE RADIOACTIVE WASTES

Nuclei, Condensation
USE CONDENSATION NUCLEI

Number, Biot
USE BIOT NUMBER

Number, High Reynolds
USE HIGH REYNOLDS NUMBER

Number, Low Reynolds
USE LOW REYNOLDS NUMBER

NUMERICAL DATA BASES

(NY), New York City
USE NEW YORK CITY (NY)

O

Observatory, Einstein
USE HEAO 2

OPEN PROJECT

Operations Center (NASA), Space
USE SPACE OPERATIONS CENTER (NASA)

OPHIUCHI CLOUDS

OPTICAL BISTABILITY

OPTICAL COMPUTERS

OPTICAL DISKS

Optical Telescope, Solar
USE SOLAR OPTICAL TELESCOPE

Oratory
USE PUBLIC SPEAKING

ORBITAL MANEUVERING VEHICLES

Orbiter 103, Space Shuttle
USE SPACE SHUTTLE ORBITER 103

Orbiter 104, Space Shuttle
USE SPACE SHUTTLE ORBITER 104

Origin Of Plasmas In Earth Neighborhood
USE OPEN PROJECT

OSCILLATOR STRENGTHS

Oscillators, Voltage Controlled
USE VOLTAGE CONTROLLED OSCILLATORS

P

Parameter, Time Temperature
USE TIME TEMPERATURE PARAMETER

PARTICLE LADEN JETS

(Particle Physics), Flavor
USE FLAVOR (PARTICLE PHYSICS)

Path Analysis, Gas
USE GAS PATH ANALYSIS

NASA THESAURUS SUPPLEMENT (PART 2)

PAYLOAD TRANSFER

PBB
USE POLYBROMINATED BIPHENYLS

Permeation Chromatography, Gel
USE LIQUID CHROMATOGRAPHY

PERSONAL COMPUTERS

Philosophers Problem, Dining
USE DINING PHILOSOPHERS PROBLEM

Photoclinometry
USE PHOTOGRAMMETRY

Photography, High Speed
USE HIGH SPEED PHOTOGRAPHY

Physics), Flavor (Particle
USE FLAVOR (PARTICLE PHYSICS)

Physiology, Gravitational
USE GRAVITATIONAL PHYSIOLOGY

Pioneer 12 Space Probe
USE PIONEER VENUS SPACECRAFT

Planetary Interactions, Solar
USE SOLAR PLANETARY INTERACTIONS

Plants, Solar Thermal Electric Power
USE SOLAR THERMAL ELECTRIC POWER PLANTS

PLASMA ANTENNAS

PLASMA BUBBLES

Plasmas In Earth Neighborhood, Origin Of
USE OPEN PROJECT

(Plasmas), Tearing Modes
USE TEARING MODES (PLASMAS)

Plus Solid Zones, Liquid
USE MUSHY ZONES

POLAR CUSPS

POLARITONS

Pollution, Indoor Air
USE INDOOR AIR POLLUTION

POLYBROMINATED BIPHENYLS

Positioning, Satellite Doppler
USE SATELLITE DOPPLER POSITIONING

POWER FACTOR CONTROLLERS

POWER LOSS

Power Plants, Solar Thermal Electric
USE SOLAR THERMAL ELECTRIC POWER PLANTS

Power Supplies, Aircraft
USE AIRCRAFT POWER SUPPLIES

PR
USE PUERTO RICO

PRE-MAIN SEQUENCE STARS

Precession, Vortex
USE VORTEX PRECESSION

PREPROCESSING

PRINCE EDWARD ISLAND

PRINCIPAL COMPONENTS ANALYSIS

Probe B, Gravity
USE GRAVITY PROBE B

Probe, Pioneer 12 Space
USE PIONEER VENUS SPACECRAFT

NASA THESAURUS SUPPLEMENT (PART 2)

Problem, Dining Philosophers
USE DINING PHILOSOPHERS PROBLEM

Process, Fischer-Tropsch
USE FISCHER-TROPSCH PROCESS

Processing, Concurrent
USE CONCURRENT PROCESSING

Processing, Distributed
USE DISTRIBUTED PROCESSING

Processing), Frames (Data
USE FRAMES (DATA PROCESSING)

Program, ACEE
USE ACEE PROGRAM

Program, Aircraft Energy Efficiency
USE ACEE PROGRAM

Program, Brazilian Space
USE BRAZILIAN SPACE PROGRAM

Program, DAST
USE DAST PROGRAM

Program, Defense Meteorological Satellite
USE DMSP SATELLITES

Program, Energy Efficiency Transport
USE ACEE PROGRAM

(Programming Language), Ada
USE ADA (PROGRAMMING LANGUAGE)

(Programming Language), APL
USE APL (PROGRAMMING LANGUAGE)

Programming, Logic
USE LOGIC PROGRAMMING

Project, Open
USE OPEN PROJECT

Properties, Asymptotic
USE ASYMPTOTIC PROPERTIES

PROTOCOL (COMPUTERS)

PSEUDOPOTENTIALS

PUBLIC SPEAKING

PULSE REPETITION RATE

Pumped Lasers, Solar-
USE SOLAR-PUMPED LASERS

P78-2 Satellite
USE SCATHA SATELLITE

Q

QUANTUM ELECTRONICS

QUERY LANGUAGES

R

Radar, Imaging
USE IMAGING RADAR

Radar, Imaging
USE SYNTHETIC APERTURE RADAR

RADARSAT

Radiation Medicine
USE NUCLEAR MEDICINE

RADIOCARDIOGRAPHY

Ramjets, Integral Rocket
USE INTEGRAL ROCKET RAMJETS

Ranging, Sound Fixing And
USE SOUND FIXING AND RANGING

Rate, Bit Error
USE BIT ERROR RATE

Rate, Pulse Repetition
USE PULSE REPETITION RATE

Ratio, Temperature
USE TEMPERATURE RATIO

Ratioing, Band
USE BAND RATIOING

Ray Imaging Scope, Low Intensity X
USE LIXISCOPES

Ray Timing Explorer, X
USE X RAY TIMING EXPLORER

RAYLEIGH-BENARD CONVECTION

Rays, Galactic Cosmic
USE GALACTIC COSMIC RAYS

Rearward Facing Steps
USE BACKWARD FACING STEPS

Receivers, Solar
USE SOLAR COLLECTORS

RECTANGULAR WAVEGUIDES

Rectifiers, Reverse Switching
USE REVERSE SWITCHING RECTIFIERS

RED DWARF STARS

REFLECTION NEBULAE

REFORESTATION

Region, Caribbean
USE CARIBBEAN REGION

Relations, Human
USE HUMAN RELATIONS

Relations, Interpersonal
USE HUMAN RELATIONS

Repetition Rate, Pulse
USE PULSE REPETITION RATE

Research Wings, Aeroelastic
USE AEROELASTIC RESEARCH WINGS

Resonance, Baryon
USE BARYON RESONANCE

Resonance, Meson
USE MESON RESONANCE

Retardants, Fire
USE FLAME RETARDANTS

Retrievable Carrier, European
USE EURECA (ESA)

REVERSE SWITCHING RECTIFIERS

Reynolds Number, High
USE HIGH REYNOLDS NUMBER

Reynolds Number, Low
USE LOW REYNOLDS NUMBER

ROBOTICS

Rocket, Aries Sounding
USE ARIES SOUNDING ROCKET

Rocket Ramjets, Integral
USE INTEGRAL ROCKET RAMJETS

ROMANIA

ROSAT MISSION

ROTARY ENGINES

Scope, Low Intensity X Ray Imaging

Rotation, Carrington
USE SOLAR ROTATION

ROTOR BODY INTERACTIONS

Rumania
USE ROMANIA

S

SAND CASTING

Sat, L-
USE L-SAT

Satellite, Cosmos 954
USE COSMOS 954 SATELLITE

SATELLITE DOPPLER POSITIONING

Satellite, European Large Telecomm
USE L-SAT

Satellite, Explorer 44
USE EXPLORER 44 SATELLITE

Satellite, Explorer 46
USE EXPLORER 46 SATELLITE

Satellite, Hipparcos
USE HIPPARCOS SATELLITE

SATELLITE IMAGERY

Satellite, Magsat B
USE MAGSAT B SATELLITE

Satellite, Meteoroid Technology
USE EXPLORER 46 SATELLITE

Satellite, NOAA 8
USE NOAA 8 SATELLITE

Satellite Program, Defense Meteorological
USE DMSP SATELLITES

Satellite, P78-2
USE SCATHA SATELLITE

Satellite, Solrad 10
USE EXPLORER 44 SATELLITE

Satellites, Anik
USE ANIK SATELLITES

Satellites, Astronomical
USE ASTRONOMICAL SATELLITES

Satellites, Dmisp
USE DMSP SATELLITES

Satellites, INSAT
USE INDIAN SPACECRAFT

Satellites, Jupiter
USE JUPITER SATELLITES

Satellites, Marecs Maritime
USE MARECS MARITIME SATELLITES

Satellites, Nova
USE NOVA SATELLITES

Scale, Gray
USE GRAY SCALE

Scale Integration, Very Large
USE VERY LARGE SCALE INTEGRATION

SCANDINAVIA

Scarps
USE ESCARPMENTS

Scope, Low Intensity X Ray Imaging
USE LIXISCOPES

Scotia, Nova

Scotia, Nova
USE NOVA SCOTIA

SDV
USE SHUTTLE DERIVED VEHICLES

SEASAT 1

(Season), Spring
USE SPRING (SEASON)

Selective Coatings, Solar
USE SELECTIVE SURFACES

SELECTIVE SURFACES

SELF SHADOWING

SEO (Indian Spacecraft)
USE INDIAN SPACECRAFT

Sequence Stars, Pre-Main
USE PRE-MAIN SEQUENCE STARS

SFAR
USE SOUND FIXING AND RANGING

Shadowing, Self
USE SELF SHADOWING

SHELL ANODES

SHIP TO SHORE COMMUNICATION

Shore Communication, Ship To
USE SHIP TO SHORE COMMUNICATION

SHORT CIRCUIT CURRENTS

SHUTTLE DERIVED VEHICLES

Shuttle Orbiter 103, Space
USE SPACE SHUTTLE ORBITER 103

Shuttle Orbiter 104, Space
USE SPACE SHUTTLE ORBITER 104

Signals, Audio
USE AUDIO SIGNALS

Signals, Video
USE VIDEO SIGNALS

Signatures, Infrared
USE INFRARED SIGNATURES

Simulation, Data
USE DATA SIMULATION

Simulation, Motion
USE MOTION SIMULATION

SOBOLEV SPACE

SOFAR
USE SOUND FIXING AND RANGING

SOFTWARE ENGINEERING

SOFTWARE TOOLS

SOLAR BACKSCATTER UV SPECTROMETER

Solar Lasers
USE SOLAR-PUMPED LASERS

SOLAR OPTICAL TELESCOPE

SOLAR PLANETARY INTERACTIONS

Solar Receivers
USE SOLAR COLLECTORS

Solar Selective Coatings
USE SELECTIVE SURFACES

SOLAR THERMAL ELECTRIC POWER PLANTS

SOLAR-PUMPED LASERS

Solid Interactions, Fluid-
USE FLUID-SOLID INTERACTIONS

Solid Zones, Liquid Plus
USE MUSHY ZONES

Solrad 10 Satellite
USE EXPLORER 44 SATELLITE

Sonic Fatigue
USE ACOUSTIC FATIGUE

SOT
USE SOLAR OPTICAL TELESCOPE

SOUND FIXING AND RANGING

Sounding Rocket, Aries
USE ARIES SOUNDING ROCKET

SPACE COMMERCIALIZATION

SPACE HABITATS

Space), Hazardous Material Disposal (In
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

SPACE OPERATIONS CENTER (NASA)

Space Probe, Pioneer 12
USE PIONEER VENUS SPACECRAFT

Space Program, Brazilian
USE BRAZILIAN SPACE PROGRAM

SPACE SHUTTLE ORBITER 103

SPACE SHUTTLE ORBITER 104

Space, Sobolev
USE SOBOLEV SPACE

Space Telescope, Hubble
USE HUBBLE SPACE TELESCOPE

Spacecraft, Canadian
USE CANADIAN SPACECRAFT

Spacecraft, Commercial
USE COMMERCIAL SPACECRAFT

SPACECRAFT EQUIPMENT

Spacecraft), IRS (Indian
USE INDIAN SPACECRAFT

Spacecraft, Japanese
USE JAPANESE SPACECRAFT

SPACECRAFT MAINTENANCE

Spacecraft, Mariner Mark 2
USE MARINER MARK 2 SPACECRAFT

Spacecraft), MOS (Japanese
USE JAPANESE SPACECRAFT

Spacecraft), SEO (Indian
USE INDIAN SPACECRAFT

Speaking, Public
USE PUBLIC SPEAKING

SPECTRAL METHODS

Spectrometer, Solar Backscatter UV
USE SOLAR BACKSCATTER UV SPECTROMETER

Spectrometers, Ion
USE MASS SPECTROMETERS

SPECTROPHOTOVOLTAICS

Spectroscopic Explorer, Far UV
USE FAR UV SPECTROSCOPIC EXPLORER

Speeches
USE LECTURES

NASA THESAURUS SUPPLEMENT (PART 2)

Speed Photography, High
USE HIGH SPEED PHOTOGRAPHY

SPRING (SEASON)

Stars, Double
USE BINARY STARS

Stars, Pre-Main Sequence
USE PRE-MAIN SEQUENCE STARS

Stars, Red Dwarf
USE RED DWARF STARS

Stars, Symbiotic
USE SYMBIOTIC STARS

Start, Air
USE AIR START

States, United
USE UNITED STATES

STATIC CHARACTERISTICS

STATIC MODELS

STELLAR ACTIVITY

STELLAR COLOR

STELLAR COMPOSITION

STELLAR CORES

Steps, Backward Facing
USE BACKWARD FACING STEPS

Steps, Rearward Facing
USE BACKWARD FACING STEPS

STEREOPHONICS

STRANGE ATTRACTORS

STRATEGIC MATERIALS

Strengths, Oscillator
USE OSCILLATOR STRENGTHS

Struct Test, Drones For Aerodynamic And
USE DAST PROGRAM

Structures, Data
USE DATA STRUCTURES

Structures, Telescoping
USE FOLDING STRUCTURES

SUPERCOMPUTERS

SUPERCritical AIRFOILS

SUPERLATTICES

Supplies, Aircraft Power
USE AIRCRAFT POWER SUPPLIES

SURFACE NOISE INTERACTIONS

Surfaces, Minimal
USE MINIMAL SURFACES

Surfaces, Selective
USE SELECTIVE SURFACES

SWATH WIDTH

Switching Rectifiers, Reverse
USE REVERSE SWITCHING RECTIFIERS

SYMBIOTIC STARS

System, Teleoperator Maneuvering
USE TELEOPERATORS

System, Transit Navigation
USE TRANSIT NAVIGATION SYSTEM

Systems Design, Controlled
USE CONTROLLED SYSTEMS DESIGN

NASA THESAURUS SUPPLEMENT (PART 2)

Systems, Embedded Computer
USE EMBEDDED COMPUTER SYSTEMS

Systems, Expert
USE EXPERT SYSTEMS

Systems, Flight Management
USE FLIGHT MANAGEMENT SYSTEMS

Systems, Geographic Information
USE GEOGRAPHIC INFORMATION SYSTEMS

Systems, Integrated Library
USE INTEGRATED LIBRARY SYSTEMS

Systems, Mobile Communication
USE MOBILE COMMUNICATION SYSTEMS

Systems, Virtual Memory
USE VIRTUAL MEMORY SYSTEMS

T

TAGN

TAIWAN

Takeoff-Landing Aircraft, Vertical Attitude
USE VATOL AIRCRAFT

TATB

Taylor-Goertler Instability
USE GOERTLER INSTABILITY

TEARING MODES (PLASMAS)

Technology Satellite, Meteoroid
USE EXPLORER 46 SATELLITE

Telecomm Satellite, European Large
USE L-SAT

Teleoperator Maneuvering System
USE TELEOPERATORS

Telescope, Hubble Space
USE HUBBLE SPACE TELESCOPE

Telescope, Solar Optical
USE SOLAR OPTICAL TELESCOPE

Telescoping Structures
USE FOLDING STRUCTURES

Temperature Parameter, Time
USE TIME TEMPERATURE PARAMETER

TEMPERATURE RATIO

Territories, Northwest
USE NORTHWEST TERRITORIES

Territory, Yukon
USE YUKON TERRITORY

Test, Bruceton
USE STATISTICAL TESTS

Test, Drones For Aerodynamic And Struct
USE DAST PROGRAM

Theory, Milankovitch
USE CLIMATOLOGY

Theory, Unified Field
USE UNIFIED FIELD THEORY

THERMAL ANALYSIS

Thermal Electric Power Plants, Solar
USE SOLAR THERMAL ELECTRIC POWER PLANTS

THRUSTORS

TIME TEMPERATURE PARAMETER

Timing Explorer, X Ray
USE X RAY TIMING EXPLORER

TIP VANES

Tips, Crack
USE CRACK TIPS

Tools, Software
USE SOFTWARE TOOLS

TOPPING CYCLE ENGINES

Towers, Whirl
USE WHIRL TOWERS

Transducers, Interdigital
USE INTERDIGITAL TRANSDUCERS

Transfer, Payload
USE PAYLOAD TRANSFER

TRANSIT NAVIGATION SYSTEM

Transit Vehicles, Automated
USE AUTOMATED TRANSIT VEHICLES

Transport Program, Energy Efficiency
USE ACEE PROGRAM

Triaminoguanidinonitrate
USE TAGN

Triaminotrininitrobenzene
USE TATB

TRIBOLUMINESCENCE

Tropsch Process, Fischer-
USE FISCHER-TROPSCH PROCESS

TYROSINE

U

ULTRALIGHT AIRCRAFT

UNIFIED FIELD THEORY

UNITED STATES

Units, Agrophysical
USE AGROPHYSICAL UNITS

Units, Manned Maneuvering
USE MANNED MANEUVERING UNITS

US-2A Aircraft
USE S-2 AIRCRAFT

UV Spectrometer, Solar Backscatter
USE SOLAR BACKSCATTER UV SPECTROMETER

UV Spectroscopic Explorer, Far
USE FAR UV SPECTROSCOPIC EXPLORER

V

Vaisala Frequency, Brunt-
USE BRUNT-VAISALA FREQUENCY

Valves, Light
USE LIGHT VALVES

Vanes, Tip
USE TIP VANES

Variables, Cataclysmic
USE CATACLYSMIC VARIABLES

VCO
USE VOLTAGE CONTROLLED OSCILLATORS

VEGETATIVE INDEX

YUKON TERRITORY

Vehicles, Automated Transit
USE AUTOMATED TRANSIT VEHICLES

Vehicles, Orbital Maneuvering
USE ORBITAL MANEUVERING VEHICLES

Vehicles, Shuttle Derived
USE SHUTTLE DERIVED VEHICLES

Vertical Attitude Takeoff-Landing Aircraft
USE VATOL AIRCRAFT

VERY LARGE SCALE INTEGRATION

VIDEO SIGNALS

VIRTUAL MEMORY SYSTEMS

VLSI
USE VERY LARGE SCALE INTEGRATION

VOLTAGE CONTROLLED OSCILLATORS

VORTEX PRECESSION

W

W
USE TUNGSTEN

WASTE HEAT

Wastes, Nuclear
USE RADIOACTIVE WASTES

Waveguides, Circular
USE CIRCULAR WAVEGUIDES

Waveguides, Rectangular
USE RECTANGULAR WAVEGUIDES

WESTERN HEMISPHERE

WHIRL TOWERS

Width, Swath
USE SWATH WIDTH

Wings, Aeroelastic Research
USE AERELASTIC RESEARCH WINGS

Wings, Cranked
USE SWEPT WINGS

Wolfgram
USE TUNGSTEN

X

X Ray Imaging Scope, Low Intensity
USE LIXISCOPES

X RAY TIMING EXPLORER

XENON CHLORIDE LASERS

Y

York City (NY), New
USE NEW YORK CITY (NY)

YUKON TERRITORY

Z**Zones, Float**

USE FLOAT ZONES

Zones, Liquid Plus Solid

USE MUSHY ZONES

Zones, Mushy

USE MUSHY ZONES

**NUMERICAL
LISTING****1, SEASAT**

USE SEASAT 1

2 Satellite, P78-

USE SCATHA SATELLITE

2 Spacecraft, Mariner Mark

USE MARINER MARK 2 SPACECRAFT

2A Aircraft, US-

USE S-2 AIRCRAFT

4, LANDSAT

USE LANDSAT 4

5, LANDSAT

USE LANDSAT 5

8 Satellite, NOAA

USE NOAA 8 SATELLITE

10 Satellite, Solrad

USE EXPLORER 44 SATELLITE

12 Space Probe, Pioneer

USE PIONEER VENUS SPACECRAFT

44 Satellite, Explorer

USE EXPLORER 44 SATELLITE

46 Satellite, Explorer

USE EXPLORER 46 SATELLITE

103, Space Shuttle Orbiter

USE SPACE SHUTTLE ORBITER 103

104, Space Shuttle Orbiter

USE SPACE SHUTTLE ORBITER 104

205 Computer, CDC Cyber

USE CDC CYBER 205 COMPUTER

310 Aircraft, A-

USE A-310 AIRCRAFT

320 Aircraft, A-

USE A-320 AIRCRAFT

954 Satellite, Cosmos

USE COSMOS 954 SATELLITE

NASA THESAURUS SUPPLEMENT

PART 3 DELETIONS

AEROMAGNETISM
Use GEOMAGNETISM
Deleted, term now postable

BARYON RESONANCES
Transferred to BARYON RESONANCE

CAMBODIA
Transferred to KAMPUCHEA

CHINA (Array term)
Deleted

CHINA (MAINLAND)
Transferred to CHINA

CHINA (TAIWAN)
Transferred to TAIWAN

COMPUTERIZED DESIGN
Transferred to COMPUTER AIDED DESIGN

CONDENSERS (LIQUIFIERS)
Transferred to CONDENSERS (LIQUEFIERS)

DAHOMAY
Transferred to BENIN

DIKES
Use ROCK INTRUSIONS
Deleted

DIFFERENTIAL ANALYZERS
Use ANALOG COMPUTERS
Deleted, term now postable

DIRECTORIES
Use INDEXES (DOCUMENTATION)
Deleted

EXERCISE (PHYSIOLOGY)
Use PHYSICAL EXERCISE
Deleted

EXPERIMENTAL DESIGN
Transferred to EXPERIMENT DESIGN

FLUORPHLOGOPITE
Transferred to FLUOROPHLOGOPITE

GIOTTO MISSION
Use EUROPEAN SPACE PROGRAM
HALLEY'S COMET
Deleted, term now postable

IMAGING RADAR
Use SYNTHETIC APERTURE RADAR
Deleted, term now postable

INFORMATION TRANSFER
Use COMMUNICATING
Deleted, term now postable

INTELSAT 1 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 2 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 3 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 4 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5B SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5C SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5F SATELLITE
Transferred to INTELSAT SATELLITES

K-MESONS
Transferred to KAONS

LANDSAT D
Transferred to LANDSAT 4

LARGE SPACE TELESCOPE
Transferred to HUBBLE SPACE TELESCOPE

LOW INTENSITY X-RAY IMAGING SCOPE
Transferred to LOW INTENSITY X RAY IMAGING SCOPE

LOWER BODY NEGATIVE PRESSURE (LBNP)
Use ACCELERATION STRESSES (PHYSIOLOGY)
Deleted

LUNAR ATMOSPHERES
Transferred to LUNAR ATMOSPHERE

MESON RESONANCES
Transferred to MESON RESONANCE

MUCOUS
Transferred to MUCUS

NORTH VIETNAM
Transferred to VIETNAM

NOVA SATELLITE
Transferred to NOVA SATELLITES

OKHOTSK SEA
Transferred to SEA OF OKHOTSK

PHASED LOCKED SYSTEMS
Transferred to PHASE LOCKED SYSTEMS

RADIATION MEDICINE
Transferred to NUCLEAR MEDICINE

RCA SATCOM C
Transferred to RCA SATCOM SATELLITES

RCA SATCOM 1
Transferred to RCA SATCOM SATELLITES

RCA SATCOM 2
Transferred to RCA SATCOM SATELLITES

ROMANIA
Use RUMANIA
Deleted

RUMANIA
Transferred to ROMANIA

SEASAT-A SATELLITE
Transferred to SEASAT 1

THRUSTORS
Use ROCKET ENGINES
Deleted, term now postable

TIROS N SATELLITES
Transferred to TIROS N SERIES SATELLITES

TRANSIT 1A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 1B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 2A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 3B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 4A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 4B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 5A SATELLITE
Transferred to TRANSIT SATELLITES

UNITED STATES OF AMERICA
Transferred to UNITED STATES

VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT
Use VATOL AIRCRAFT
Changed to
VERTICAL ATTITUDE TAKEOFF-LANDING
AIRCRAFT
Use VATOL AIRCRAFT

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